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Biotech-Chem Library

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TO: Patricia Duffy
Location: REM/3B05/3C18
Art Unit: 1645
Thursday, March 31, 2005

Case Serial Number: 10/033243

From: Barb O'Bryen
Location: Biotech-Chem Library
Remsen 1a69
Phone: 571-272-2518

barbara.obryen@uspto.gov

Search Notes

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From: Duffy, Patricia
Sent: Tuesday, March 22, 2005 10:21 AM
To: STIC-Biotech/ChemLib
Subject: Sequence search 10/033,243

In re: 10/033,243

Please search SEQ ID NO:132.

Please include both a commercial and interference database hit.

Note: this is a short NA, and I a print out of all 100% hits.

Thanks,

Patricia A. Duffy, Ph.D.
Art Unit 1645
Remsen 3B05; Mailbox 3C18
571-272-0855

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Searcher: _____
Searcher Phone: 2- _____
Date Searcher Picked up: _____
Date Completed: _____
Searcher Prep/Rev. Time: _____
Online Time: _____

Type of Search

NA#: _____ AA#: _____
Interference: _____ SPDI: _____
S/L: _____ Oligomer: _____
Encode/Transl: _____
Structure#: _____ Text: _____
Inventor: _____ Litigation: _____

Vendors and cost where applicable

STN: _____
DIALOG: _____
QUESTEL/ORBIT: _____
LEXIS/NEXIS: _____
SEQUENCE SYSTEM: _____
WWW/Internet: _____
Other(Specify): _____

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2	19	90.5	19	6	AX592329	Sequence	
3	19	90.5	22	6	AX592340	Sequence	
4	18.4	87.6	110000	1	AE016822_01	Continuation (2 of	
5	18	85.7	19	6	AX592334	Sequence	
6	17.8	84.8	164921	8	AF022186	Cyanidium	
7	17.4	82.9	19	6	AX592366	Sequence	
8	17.4	82.9	19	6	AX592367	Sequence	
9	17	81.0	19	6	AX592333	Sequence	
10	16.8	80.0	198	8	BA9540263	Unculture	
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16	16.8	80.0	3047	3	AF257641	Drosophil	
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18	16.8	80.0	3047	3	AF257646	Drosophil	
19	16.8	80.0	3050	3	AF257642	Drosophil	

REFERENCE 1
AUTHORS Fearon,K.L. and Dina,D.
TITLE Immunomodulatory polynucleotides and methods of using the same
JOURNAL Patent: WO 02052002-A 19 04-JUL-2002;
Dynavax Technologies Corporation (US)
FEATURES
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/note="Polynucleotide containing CG"
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Db 1 TCGTCGAACGTTTCGAGATG 19
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LOCUS AX592340
DEFINITION Sequence 30 from Patent WO02052002.
ACCESSION AX592340
VERSION AX592340.1 GI:27950442
KEYWORDS
synthetic construct
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.
REFERENCE 1
AUTHORS Fearon,K.L. and Dina,D.
TITLE Immunomodulatory polynucleotides and methods of using the same
JOURNAL Patent: WO 02052002-A 30 04-JUL-2002;
Dynavax Technologies Corporation (US)
FEATURES
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/note="Polynucleotide containing CG"
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AE016822_03
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AE016822_06
AE016822_07
AE016822_08
AE016822_09
AE016822_10
AE016822_11
AE016822_12
AE016822_13
Sequence split into 26 fragments LOCUS AE016822 Accession AE016822
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AE016822_01 100001 210000
AE016822_02 200001 310000
AE016822_03 300001 410000
AE016822_04 400001 510000
AE016822_05 500001 610000
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Best Local Similarity 95.0%; Pred. No. 56; Mismatches 1; Indels 0; Gaps 0;
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Db 78417 TCGTCGAACGTTTCGAGCTGA 78436
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RESULT 5
AX592334 19 bp DNA linear PAT 27-JAN-2003
LOCUS AX592334
DEFINITION Sequence 24 from Patent WO02052002.
ACCESSION AX592334
VERSION AX592334.1 GI:27950436
KEYWORDS
synthetic construct
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.
REFERENCE 1
AUTHORS Fearon,K.L. and Dina,D.
TITLE Immunomodulatory polynucleotides and methods of using the same
JOURNAL Patent: WO 02052002-A 24 04-JUL-2002;
Dynavax Technologies Corporation (US)
FEATURES
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/mol_type="unassigned DNA"
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Db 1 TCGTNGAACGTTTCGAGATG 19
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LOCUS AF022186
DEFINITION Cyanidium caldarium strain RK1 chloroplast, complete genome.
ACCESSION AF022186 Z36235 Z70297
VERSION AF022186.2 GI:6466296
KEYWORDS
chloroplast Cyanidium caldarium
SOURCE Cyanidium caldarium
ORGANISM Eukaryota; Rhodophyta; Bangiophyceae; Cyanidiales; Cyanidiaceae;
Cyanidium.
REFERENCE 1 (bases 130696 to 132364)
AUTHORS Vogel,H., Fischer,S. and Valentin,K.
TITLE A model for the evolution of the plastid sec apparatus inferred
from secY gene phylogeny
JOURNAL Plant Mol. Biol. 32 (4), 685-692 (1996)

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MEDLINE      97134960
PUBMED      8980520
REFERENCE    2 (bases 1 to 164921)
AUTHORS      Glockner,G., Rosenthal,A. and Valentin,K.
TITLE        The structure and gene repertoire of an ancient red algal plastid
genome
JOURNAL      J. Mol. Evol. 51 (4), 382-390 (2000)
MEDLINE     20496959
PUBMED     11040290
REFERENCE    3 (bases 46857 to 47851)
AUTHORS      Valentin,K.
TITLE        Direct Submission
JOURNAL      Submitted (22-MAR-1996) Institute for Plant Physiology, Justus
Liëbig University, Heinrich Buff Ring 58-62, Giessen 35392, Germany
REFERENCE    4 (bases 28701 to 75580)
AUTHORS      Gloeckner,G., Rosenthal,A. and Valentin,K.
TITLE        Direct Submission
JOURNAL      Submitted (02-SEP-1997) Department of Genome Analysis, IMB Jena,
Beutenbergstr.11, Jena 07745, Germany
REFERENCE    5 (bases 1 to 164921)
AUTHORS      Gloeckner,G., Rosenthal,A. and Valentin,K.
TITLE        Direct Submission
JOURNAL      Submitted (18-NOV-1999) Institute for Plant Physiology, Justus
Liëbig University, Heinrich Buff Ring 58-62, Giessen 35392, Germany
COMMENT      On or before Nov 23, 1999 this sequence version replaced gi:529651,
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             /strain="RK1"
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             AWNTYTPSEFVPTPAEASQAQAFFLVRDQLGANIASTQSTGLGKYLMSPTG
             EVILGGTMRFDRLAPWLEPLRSSGLDNKIKNDIQWQERRAAEYTWTHAPLGSLN
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gene

mRNA

CDS

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 RGGKIGLPGGAGVKTVLIMELINNVAHGGVSVRGGVGRTERGNDLYOEMKESGV
 INEKDLNLSKVALICGQNNPPGARMVGLTALTMAEYFRDVNQNQLLFDINLFRFV
 QAGSEVALLGRMPISAVGYQPTLGTGEMGALQERITSTLDGSIISIQAVYVPADLTD
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 QRYKELQDIIAILGDELSEEDRLIVSRKIEKFLSQPFPAEVTGIGSKYVLSLD
 SIKGFNMTLSGEVDNIPEQAFYLVGRIBEAIDKAKQVEKS"
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gene

mRNA

CDS

Query Match 84.8%; Score 17.8; DB 8; Length 164921;
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QY 1 TCGTCGAACGTTTCGAGATGAT 21
 Db 113659 TCGCCAAACGTTTCGAGATGAT 113679

RESULT 7
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 LOCUS AX592366 19 bp DNA linear PAT 27-JAN-2003
 DEFINITION Sequence 56 from Patent WO02052002.
 ACCESSION AX592366
 VERSION AX592366.1 GI:27950468
 KEYWORDS
 SOURCE synthetic construct
 ORGANISM
 1
 other sequences; artificial sequences.

REFERENCE
 1
 AUTHORS Fearon,K.L. and Dina,D.
 TITLE Immunomodulatory polynucleotides and methods of using the same
 JOURNAL Patent: WO 02052002-A 56 04-JUL-2002;
 DYNAMAX Technologies Corporation (US)
 FEATURES
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 Location/Qualifiers
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QY 1 TCGTCGAACGTTTCGAGATG 19
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 DEFINITION Sequence 57 from Patent WO02052002.
 ACCESSION AX592367
 VERSION AX592367.1 GI:27950469
 KEYWORDS
 SOURCE synthetic construct
 ORGANISM
 1
 other sequences; artificial sequences.

REFERENCE
 1
 AUTHORS Fearon,K.L. and Dina,D.
 TITLE Immunomodulatory polynucleotides and methods of using the same
 JOURNAL Patent: WO 02052002-A 57 04-JUL-2002;
 DYNAMAX Technologies Corporation (US)
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Query Match 82.9%; Score 17.4; DB 6; Length 19;
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QY 1 TCGTCGAACGTTTCGAGATG 19
 Db 1 TCGTCGTACGTTTCGAGATG 19

RESULT 9
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 LOCUS AX592333 19 bp DNA linear PAT 27-JAN-2003
 DEFINITION Sequence 23 from Patent WO02052002.
 ACCESSION AX592333
 VERSION AX592333.1 GI:27950435
 KEYWORDS
 SOURCE synthetic construct
 ORGANISM
 1
 other sequences; artificial sequences.

REFERENCE
 1
 AUTHORS Fearon,K.L. and Dina,D.
 TITLE Immunomodulatory polynucleotides and methods of using the same
 JOURNAL Patent: WO 02052002-A 23 04-JUL-2002;
 DYNAMAX Technologies Corporation (US)
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misc_feature
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ORIGIN

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 Best Local Similarity 85.5%; Pred. No. 1.3e+02;
 Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 TCGTCGAACGTTTCGAGATG 19

JOURNAL Submitted (19-APR-2000) Ecology and Evolution, State University of New York, Stony Brook, NY 11794, USA

FEATURES source
Location/Qualifiers
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RDHRSVPCCHLSYVDQPTGRERGQFLAEMPTNCRIMLVKPFSSERDIYTSKCV
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WKEFGAQAIGKDVQLLDALAKFPEISVDVMGIINVGAGSLALCAQDPRLTIGL
IMSGIANCYVERVCETYGSDRFRMLIINSDWAHFGDTGOLDPFRNEPDRLLDITD
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SKL"

ORIGIN

Query Match 80.0%; Score 16.8; DB 3; Length 3041;
Best Local Similarity 90.0%; Pred. No. 3.1e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 2 CGTCGAACGTCGAGATGAT 21
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Db 156 CGTCGAACGTCGATGAT 137

RESULT 13
AF257637/c
LOCUS
DEFINITION Drosophila simulans strain DPF96_3s hexokinase-t1 and hexokinase-t2
ACCESSION AF257637
VERSION AF257637.1 GI:10765240
KEYWORDS
SOURCE
ORGANISM
Drosophila simulans
Drosophila simulans
Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
Ephydroidea; Drosophilidae; Drosophila.
1 (bases 1 to 3047)
Duvernell,D.D. and Eanes,W.F.
Contrasting molecular population genetics of four hexokinases in
Drosophila melanogaster and Drosophila simulans
Genetics (2000) In press
2 (bases 1 to 3047)
Duvernell,D.D. and Eanes,W.F.
Direct Submission
TITLE
JOURNAL
REFERENCE
AUTHORS
TITLE
JOURNAL
Submitted (19-APR-2000) Ecology and Evolution, State University of

New York, Stony Brook, NY 11794, USA

FEATURES source
Location/Qualifiers
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/protein_id="AAG22943.1"
/db_xref="GI:10765241"
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RDHRSVPCCHLSYVDQPTGRERGQFLAEMPTNCRIMLVKPFSSERDIYTSKCV
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SKL"

ORIGIN

Query Match 80.0%; Score 16.8; DB 3; Length 3047;
Best Local Similarity 90.0%; Pred. No. 3.1e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 2 CGTCGAACGTCGAGATGAT 21
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Db 156 CGTCGAACGTCGATGAT 137

RESULT 14
AF257639/c
LOCUS
DEFINITION Drosophila simulans strain CT96_5s hexokinase-t1 and hexokinase-t2
ACCESSION AF257639
VERSION AF257639.1 GI:10765246
KEYWORDS
SOURCE
ORGANISM
Drosophila simulans
Drosophila simulans
Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
Ephydroidea; Drosophilidae; Drosophila.
1 (bases 1 to 3047)
Duvernell,D.D. and Eanes,W.F.
Contrasting molecular population genetics of four hexokinases in
Drosophila melanogaster and Drosophila simulans
Genetics (2000) In press
2 (bases 1 to 3047)
Duvernell,D.D. and Eanes,W.F.
Direct Submission
TITLE
JOURNAL
REFERENCE
AUTHORS
TITLE
JOURNAL
Submitted (19-APR-2000) Ecology and Evolution, State University of New York, Stony Brook, NY 11794, USA

FEATURES

source
Location/Qualifiers
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SKL"

ORIGIN

Query Match 80.0%; Score 16.8; DB 3; Length 3047;
Best Local Similarity 90.0%; Pred. No. 3.1e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
Qy 2 CGTCGAACGTTCCGAGATGAT 21
||||||| ||| |||||
Db 156 CGTCGACGATCGTGATGAT 137

RESULT 15

AF257640/c
LOCUS AF257640 3047 bp DNA linear INV 09-OCT-2000
DEFINITION Drosophila simulans strain CT96_6s hexokinase-t1 and hexokinase-t2
genes, complete cds.
ACCESSION AF257640
VERSION AF257640.1 GI:10765249
KEYWORDS
SOURCE Drosophila simulans
ORGANISM Drosophila simulans
Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
Ephydroidea; Drosophilidae; Drosophila.
1 (bases 1 to 3047)
Duvernell,D.D. and Eanes,W.F.
Contrasting molecular population genetics of four hexokinases in
Drosophila melanogaster and Drosophila simulans
Genetics (2000) In press
2 (bases 1 to 3047)
Duvernell,D.D. and Eanes,W.F.
Direct Submission
Submitted (19-APR-2000) Ecology and Evolution, State University of
New York, Stony Brook, NY 11794, USA
Location/Qualifiers

source

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VVIIGDGSVYRPHPKYHMDLQYHMKLLKPGVKFELIVSEDSGSGRGAALVAATAVOAK
SKL"

ORIGIN

Query Match 80.0%; Score 16.8; DB 3; Length 3047;
Best Local Similarity 90.0%; Pred. No. 3.1e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
Qy 2 CGTCGAACGTTCCGAGATGAT 21
||||||| ||| |||||
Db 156 CGTCGACGATCGTGATGAT 137

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Job time : 1816 secs

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OM nucleic - nucleic search, using sw model

Run on: March 30, 2005, 11:54:27 ; Search time 426 Seconds
(without alignments)
291.818 Million cell updates/sec

Title: US-10-033-243-132

Perfect score: 21

Sequence: 1 tcgtcgacgttcgatgatg 21

Scoring table: IDENTITY_NUC

Gapop 10.0, Gapext 1.0

Searched: 4390206 seqs, 2959870667 residues

Total number of hits satisfying chosen parameters: 8780412

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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- 2: Geneseqn1990s:*
- 3: Geneseqn2000s:*
- 4: Geneseqn2001as:*
- 5: Geneseqn2001bs:*
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- 7: Geneseqn2002bs:*
- 8: Geneseqn2003as:*
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- 10: Geneseqn2003cs:*
- 11: Geneseqn2003ds:*
- 12: Geneseqn2004as:*
- 13: Geneseqn2004bs:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	21	100.0	21	ABQ75182	ISS immu
2	21	100.0	21	ADK67599	Adk67599 Immunost
3	21	100.0	21	ADQ16896	Adq16896 Immunomod
4	21	100.0	21	ADQ16939	Adq16939 Immunomod
5	21	100.0	21	ADQ16892	Adq16892 Immunomod
6	21	100.0	21	ADQ16924	Adq16924 Immunomod
7	21	100.0	21	ADQ16748	Adq16748 Immunomod
8	21	100.0	21	ADQ16895	Adq16895 Immunomod
9	21	100.0	21	ADQ16898	Adq16898 Immunomod
10	21	100.0	21	ADQ16901	Adq16901 Immunomod
11	21	100.0	21	ADQ16922	Adq16922 Immunomod
12	21	100.0	21	ADQ16938	Adq16938 Immunomod
13	21	100.0	21	ADQ16940	Adq16940 Immunomod
14	21	100.0	21	ADQ16894	Adq16894 Immunomod
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17	21	100.0	21	ADQ16893	Adq16893 Immunomod
18	20	95.2	21	ADQ16750	Adq16750 Immunomod
19	19	90.5	19	ABQ75170	ISS immu
20	19	90.5	19	ADB88838	Chimeric

21	19	90.5	19	10	ACC49937	Acc49937 Human imm
22	19	90.5	19	12	ADQ95304	Adq95304 Branched
23	19	90.5	19	12	ADQ95303	Adq95303 Branched
24	19	90.5	19	12	ADQ95299	Adq95299 Branched
25	19	90.5	19	13	ADQ16876	Adq16876 Immunomod
26	19	90.5	19	13	ADQ16744	Adq16744 Immunomod
27	19	90.5	22	6	ABQ75181	Abq75181 ISS immu
28	19	90.5	22	9	ADB88849	ADB88849 Chimeric
29	19	90.5	22	12	ADQ95310	Adq95310 Branched
30	19	90.5	22	13	ADQ16745	Adq16745 Immunomod
31	18	85.7	18	13	ADQ16820	Adq16820 Immunomod
32	18	85.7	19	6	ABQ75175	Abq75175 ISS immu
33	18	85.7	19	9	ADB88843	ADB88843 Chimeric
34	18	85.7	19	13	ADQ16743	Adq16743 Immunomod
35	18	85.7	21	13	ADQ16827	Adq16827 Immunomod
36	17.8	84.8	21	13	ADQ16765	Adq16765 Immunomod
37	17.8	84.8	21	13	ADQ16766	Adq16766 Immunomod
38	17.8	84.8	21	13	ADQ16790	Adq16790 Immunomod
39	17.8	84.8	21	13	ADQ16772	Adq16772 Immunomod
40	17.8	84.8	21	13	ADQ16769	Adq16769 Immunomod
41	17.8	84.8	21	13	ADQ16768	Adq16768 Immunomod
42	17.4	82.9	19	6	ABQ75221	Abq75221 ISS immu
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ALIGNMENTS

RESULT 1

ABQ75182

ID ABQ75182 standard; DNA; 21 BP.

XX AC ABQ75182;

XX DT 05-NOV-2002 (first entry)

XX DE ISS immunomodulatory oligonucleotide SEQ ID NO:132.

XX KW Immunostimulatory sequence; ISS: immunomodulatory; immune response; allergy; asthma; infectious disease; interferon-gamma; IFN-gamma; idiopathic pulmonary fibrosis; viral infection; mycobacterial disease; malaria; leishmaniasis; toxoplasmosis; schistosomiasis; clonorchiasis; immunoglobulin E; IgE-related disorder; antiallergic; antiasthmatic; virucide; antibacterial; protozoacide; ss.

XX OS Synthetic.

XX FN WO200252002-A2.

XX PD 04-JUL-2002.

XX PF 27-DEC-2001; 2001WO-US050821.

XX PR 27-DEC-2000; 2000US-0258675P.

XX PA (DYNA-) DYNAVAX TECHNOLOGIES CORP.

XX PI Fearon KL, Dina D;

XX DR WPI; 2002-657426/70.

XX PT Immunomodulatory polynucleotide for modulating an immune response in a subject suffering from disorders associated with Th2-type immune response, e.g. allergy, or infectious disease, comprises an immunostimulatory sequence.

XX PS Claim 4; Page 21; 95pp; English.

XX CC The present invention describes an immunomodulatory polynucleotide (I) comprising an immunostimulatory sequence (ISS). Also described: (1) an immunomodulatory composition comprising (I); (2) an immunomodulatory

CC polynucleotide/microcarrier (IMP/MC) complex, comprising (I) linked to a
 CC biodegradable MC, where the MC is less than 10 micrometre in size; and
 CC (3) a kit comprising (I). (I) has anti-allergic, antiasthmatic, virucide,
 CC antibacterial and protozoacide activities, and can be used as a modulator
 CC of immune response. (I) is useful for modulating an immune response in an
 CC individual suffering from disorders associated with a Th2-type immune
 CC response, especially an allergy or asthma, or an infectious disease. (I)
 CC is also useful for increasing interferon-gamma (IFN-gamma) in an
 CC individual having idiopathic pulmonary fibrosis, or IFN-alpha in an
 CC individual having a viral infection. (I) is further useful for
 CC ameliorating a symptom of an infectious disease caused by a cellular
 CC pathogen such as mycobacterial disease, malaria, leishmaniasis,
 CC toxoplasmosis, schistosomiasis and clonorchiasis in an individual, or a
 CC symptom of an immunoglobulin E (IgE)-related disorder, preferably an
 CC allergy-related disorder, in particular asthma in an individual. The
 CC present sequence represents an immunomodulatory oligonucleotide from the
 CC present invention
 XX
 SQ Sequence 21 BP; 5 A; 4 C; 6 G; 6 T; 0 U; 0 Other;

Query Match 100.0%; Score 21; DB 6; Length 21;
 Best Local Similarity 100.0%; Pred. No. 0.37;
 Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCGTCGAACGTTTCGAGATGAT 21
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 Db 1 TCGTCGAACGTTTCGAGATGAT 21

RESULT 2
 ADK67599
 ID ADK67599 standard; DNA; 21 BP.
 AC ADK67599;
 XX
 XX
 DT 06-MAY-2004 (first entry)
 XX
 DE Immunostimulant oligonucleotide, for immunomodulatory composition.
 XX
 XX Immunomodulator; immunostimulant; vaccine; ss.

OS Synthetic.
 XX
 XX WO2004014322-A2.
 XX
 PD 19-FEB-2004.
 XX
 XX 12-AUG-2003; 2003WO-US025415.
 XX
 PF 12-AUG-2002; 2002US-0402968P.
 PR
 XX (DYNA-) DYNAVAX TECHNOLOGIES CORP.
 PA
 XX Van Nest G, Tuck S;
 PI
 XX WPI; 2004-238627/22.
 DR

XX Immunomodulatory composition useful for modulating immune responses in
 PT individuals, comprises immunomodulatory particles or a particulate
 PT composition made by mixing cationic condensing agent and an
 PT immunomodulatory compound.
 XX
 XX Example 6; SEQ ID NO 39; 90pp; English.
 PS
 CC The present sequence is that of an immunomodulatory compound (IMC) that
 CC was used in an example from the invention. Novel immunomodulatory
 CC compositions of the invention comprise a cationic condensing agent, an
 CC IMC comprising the nucleotide sequence 5'-CG-3', and a stabilising agent.
 CC The compositions form particles which have increased immunomodulatory
 CC activity as compared to IMCs not formulated in the compositions of the
 CC invention. The immunomodulatory compositions can be used for
 CC immunomodulation of an individual, e.g. when the individual suffers from
 CC a disorder associated with a Th2-type immune response (e.g. allergies or

CC allergy-induced asthma), is receiving vaccines such as therapeutic
 CC vaccines (e.g. vaccines comprising an allergy epitope, a mycobacterial
 CC epitope or a tumour associated epitope) or prophylactic vaccines, suffers
 CC from cancer, suffers from an infectious disease or is at risk of exposure
 CC to an infectious agent. In an example from the invention, the present IMC
 CC was used to examine the effects of polymyxin particulate formulations on
 CC immunostimulant activity in human peripheral blood mononuclear cells, and
 CC enhancement of interferon-alpha production from plasmacytoid dendritic
 CC cells by IMC particulate formulations.

XX
 SQ Sequence 21 BP; 5 A; 4 C; 6 G; 6 T; 0 U; 0 Other;
 Query Match 100.0%; Score 21; DB 12; Length 21;
 Best Local Similarity 100.0%; Pred. No. 0.37;
 Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCGTCGAACGTTTCGAGATGAT 21
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 Db 1 TCGTCGAACGTTTCGAGATGAT 21

RESULT 3
 ADQ16896
 ID ADQ16896 standard; DNA; 21 BP.

XX
 AC ADQ16896;
 XX
 DT 07-OCT-2004 (first entry)
 XX

XX Immunomodulatory polynucleotide, SEQ ID NO 190.

XX
 KW Immunomodulatory polynucleotide; IMP; palindromic sequence; dinucleotide;
 KW trinucleotide; antimicrobial; anti-allergic; antiasthmatic;
 KW dermatological; anti-inflammatory; ophthalmological; immunosuppressive;
 KW antibacterial; vasotropic; antiparasitic; virucide; hepatotropic;
 KW anti-HIV; cytostatic; antitumor; nephrotropic; IgE-related disorder;
 KW T helper; (Th)2-type immune response; vaccine; prophylactic; immune;
 KW interferon-gamma; interferon-alpha; type I interferon; IFN-alpha;
 KW IFN-omega; IFN-gamma; plasmacytoid dendritic cell; ss.

XX Unidentified.

XX WO2004058179-A2.

XX 15-JUL-2004.

XX 18-DEC-2003; 2003WO-US041001.

XX 23-DEC-2002; 2002US-0436122P.

XX 13-FEB-2003; 2003US-0447885P.

XX 01-MAY-2003; 2003US-0467546P.

XX (DYNA-) DYNAVAX TECHNOLOGIES.

XX Dina D, Fearon KL, Marshall J;

XX WPI; 2004-525782/50.

XX Immunomodulatory polynucleotide useful for the treatment of e.g. atopic
 PT dermatitis comprises palindromic sequence comprising at least eight bases
 PT in length, which contains at least two dinucleotides and at least one
 PT trinucleotide.

XX Example 1; SEQ ID NO 190; 119pp; English.

XX The invention relates to a novel immunomodulatory polynucleotide (IMP)
 CC comprising a palindromic sequence. The palindromic sequence comprises at
 CC least 8 bases in length, which contains at least two dinucleotides (CG),
 CC and at least one trinucleotide (TCG) at or near the 5' end of the
 CC polynucleotide. The CG dinucleotides are separated by 0 - 5 bases. The 5'
 CC T of the (TCG) is positioned 0 - 3 bases from the 5' end of the
 CC polynucleotide. The (TCG) is separated from the 5' end of the
 CC palindromic sequence by 0 - 2 bases. The palindromic sequence includes

all or part of the (TCG)Y sequence, where Y= 1 or 2. The immunomodulatory polynucleotides have the following activities: antimicrobial, antiallergic, antiasthmatic, dermatological, antiinflammatory, ophthalmological, immunosuppressive, antibacterial, vasotropic, antiparasitic, virucide, hepatotropic, anti-HIV, cytostatic, antiulcer, and nephrotropic. The immunomodulatory polynucleotides can be used for ameliorating a symptom of an infectious disease and Igs-related disorder. The IMP's may also be used for the treatment of a disorder associated with a T helper (TH)2-type immune response (e.g. allergies, allergy-induced asthma or atopic dermatitis), individuals receiving vaccines such as therapeutic vaccines (e.g. vaccines comprising an allergy epitope, a mycobacterial epitope or a tumour associated epitope) or prophylactic vaccines. The IMP's can also be used for the treatment of e.g. food allergies, rhinitis, atopic dermatitis, conjunctivitis, urticaria, shock, Hymenoptera sting allergies and drug allergies and parasitic infections; viral disease e.g. Hepatitis B, Hepatitis C, Influenza, Acquired immunodeficiency syndrome (AIDS) and Herpes zoster; and cancer; inflammatory disorder e.g. ulcerative colitis; fibrotic disorder e.g. idiopathic pulmonary fibrosis, scleroderma, cutaneous radiation-induced fibrosis, hepatic fibrosis including schistosomiasis-induced hepatic fibrosis, renal fibrosis. The IMP's may also be used to create a prophylactic vaccine to increase resistance to infection by bacterial or viral pathogens. The immunomodulatory polynucleotide modulates an immune response; or increases interferon-gamma; or interferon-alpha; effectively stimulates cytokines including type I interferons e.g. IFN-alpha and IFN-omega and IFN-gamma, production from human cells; effectively stimulates B cells to proliferate; and activates plasmacytoid dendritic cells to undergo maturation which can result in retardation of plasmacytoid dendritic cell apoptosis in culture. This polynucleotide sequence represents an immunomodulatory polynucleotide of the invention.

XX Sequence 21 BP; 5 A; 4 C; 6 G; 6 T; 0 U; 0 Other;

Query Match 100.0%; Score 21; DB 13; Length 21;

Best Local Similarity 100.0%; Pred. No. 0.37; Indels 0; Gaps 0; Matches 21; Conservative 0; Mismatches 0;

Qy 1 TCGTCGAACGTTCCGAGATGAT 21

Db 1 TCGTCGAACGTTCCGAGATGAT 21

RESULT 4

ADQ16939

ID ADQ16939 standard; DNA; 21 BP.

XX AC ADQ16939;

XX DT 07-OCT-2004 (first entry)

XX DE Immunomodulatory polynucleotide, SEQ ID No 184.

XX KW Immunomodulatory polynucleotide; IMP; palindromic sequence; dinucleotide; trinucleotide; antimicrobial; antiallergic; antiasthmatic; dermatological; antiinflammatory; ophthalmological; immunosuppressive; antibacterial; vasotropic; antiparasitic; virucide; hepatotropic; anti-HIV; cytostatic; antiulcer; nephrotropic; Igs-related disorder; T helper; (TH)2-type immune response; vaccine; prophylactic; immune; interferon-gamma; interferon-alpha; type I interferon; IFN-alpha; IFN-omega; IFN-gamma; plasmacytoid dendritic cell; ds.

XX OS Unidentified.

XX PN WO2004058179-A2.

XX PD 15-JUL-2004.

XX PF 18-DEC-2003; 2003WO-US041001.

XX PR 23-DEC-2002; 2002US-0436122P.

XX PR 13-FEB-2003; 2003US-0447885P.

XX PR 01-MAY-2003; 2003US-0467546P.

XX

PA (DYNA-) DYNAVAX TECHNOLOGIES.

XX PI Dina D, Fearon KL, Marshall J;

XX WPI; 2004-525782/50.

XX Immunomodulatory polynucleotide useful for the treatment of e.g. atopic dermatitis comprises palindromic sequence comprising at least eight bases in length, which contains at least two dinucleotides and at least one trinucleotide.

XX Disclosure; SEQ ID NO 184; 119pp; English.

XX The invention relates to a novel immunomodulatory polynucleotide (IMP) comprising a palindromic sequence. The palindromic sequence comprises at least 8 bases in length, which contains at least two dinucleotides (CG), and at least one trinucleotide (TCG)Y at or near the 5' end of the polynucleotide. The CG dinucleotides are separated by 0 - 5 bases. The 5' T of the (TCG)Y is positioned 0 - 3 bases from the 5' end of the polynucleotide. The (TCG)Y is separated from the 5' end of the palindromic sequence by 0 - 2 bases. The palindromic sequence includes all or part of the (TCG)Y sequence, where Y= 1 or 2. The immunomodulatory polynucleotides have the following activities: antimicrobial, antiallergic, antiasthmatic, dermatological, antiinflammatory, ophthalmological, immunosuppressive, antibacterial, vasotropic, antiparasitic, virucide, hepatotropic, anti-HIV, cytostatic, antiulcer, and nephrotropic. The immunomodulatory polynucleotides can be used for ameliorating a symptom of an infectious disease and Igs-related disorder. The IMP's may also be used for the treatment of a disorder associated with a T helper (TH)2-type immune response (e.g. allergies, allergy-induced asthma or atopic dermatitis), individuals receiving vaccines such as therapeutic vaccines (e.g. vaccines comprising an allergy epitope, a mycobacterial epitope or a tumour associated epitope) or prophylactic vaccines. The IMP's can also be used for the treatment of e.g. food allergies, rhinitis, atopic dermatitis, conjunctivitis, urticaria, shock, Hymenoptera sting allergies and drug allergies and parasitic infections; viral disease e.g. Hepatitis B, Hepatitis C, Influenza, Acquired immunodeficiency syndrome (AIDS) and Herpes zoster; and cancer; inflammatory disorder e.g. ulcerative colitis; fibrotic disorder e.g. idiopathic pulmonary fibrosis, scleroderma, cutaneous radiation-induced fibrosis, hepatic fibrosis including schistosomiasis-induced hepatic fibrosis, renal fibrosis. The IMP's may also be used to create a prophylactic vaccine to increase resistance to infection by bacterial or viral pathogens. The immunomodulatory polynucleotide modulates an immune response; or increases interferon-gamma; or interferon-alpha; effectively stimulates cytokines including type I interferons e.g. IFN-alpha and IFN-omega and IFN-gamma, production from human cells; effectively stimulates B cells to proliferate; and activates plasmacytoid dendritic cells to undergo maturation which can result in retardation of plasmacytoid dendritic cell apoptosis in culture. This polynucleotide sequence represents an immunomodulatory polynucleotide of the invention.

XX Sequence 21 BP; 5 A; 4 C; 6 G; 6 T; 0 U; 0 Other;

Query Match 100.0%; Score 21; DB 13; Length 21;

Best Local Similarity 100.0%; Pred. No. 0.37;

Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCGTCGAACGTTCCGAGATGAT 21

Db 1 TCGTCGAACGTTCCGAGATGAT 21

RESULT 5

ADQ16892/C

ID ADQ16892 standard; DNA; 21 BP.

XX AC ADQ16892;

XX DT 07-OCT-2004 (first entry)

XX DE Immunomodulatory polynucleotide, SEQ ID No 182.

XX

KW Immunomodulatory polynucleotide; IMP; palindromic sequence; dinucleotide;
 KW trinucleotide; antimicrobial; antiallergic; antiasthmatic;
 KW dermatological; antiinflammatory; ophthalmological; immunosuppressive;
 KW antibacterial; vasotropic; antiparasitic; virucide; hepatotropic;
 KW anti-HIV; cytostatic; antiulcer; nephrotropic; IGF-related disorder;
 KW T helper; (TH)2-type immune response; vaccine; prophylactic; immune;
 KW interferon-gamma; interferon-alpha; type I interferon; IFN-alpha;
 KW IFN-omega; IFN-gamma; plasmacytoid dendritic cell; ss.
 XX
 OS Unidentified.
 XX
 XX WO2004058179-A2.
 XX
 XX PD 15-JUL-2004.
 XX
 XX PF 18-DEC-2003; 2003WO-US041001.
 XX
 XX PR 23-DEC-2002; 2002US-0436122P.
 XX PR 13-FEB-2003; 2003US-0447885P.
 XX PR 01-MAY-2003; 2003US-0467546P.
 XX
 XX PA (DYNA-) DYNAVAX TECHNOLOGIES.
 XX
 XX PI Dina D, Fearon KL, Marshall J;
 XX
 XX DR WPI; 2004-525782/50.
 XX
 XX PT Immunomodulatory polynucleotide useful for the treatment of e.g. atopic
 PT dermatitis comprising palindromic sequence comprising at least eight bases
 PT in length, which contains at least two dinucleotides and at least one
 PT trinucleotide.
 XX
 XX PS Example 1; SEQ ID NO 182; 119pp; English.
 XX
 CC The invention relates to a novel immunomodulatory polynucleotide (IMP)
 CC comprising a palindromic sequence. The palindromic sequence comprises at
 CC least 8 bases in length, which contains at least two dinucleotides (CG),
 CC and at least one trinucleotide (TCG)Y at or near the 5' end of the
 CC polynucleotide. The CG dinucleotides are separated by 0 - 5 bases. The 5'
 CC T of the (TCG)Y is positioned 0 - 3 bases from the 5' end of the
 CC palindromic sequence. The (TCG)Y is separated from the 5' end of the
 CC polynucleotide sequence by 0 - 2 bases. The palindromic sequence includes
 CC all or part of the (TCG)Y sequence, where Y= 1 or 2. The immunomodulatory
 CC polynucleotides have the following activities: antimicrobial,
 CC antiallergic, antiasthmatic, dermatological, antiinflammatory,
 CC ophthalmological, immunosuppressive, antibacterial, vasotropic,
 CC antiparasitic, virucide, hepatotropic, anti-HIV, cytostatic, antiulcer,
 CC and nephrotropic. The immunomodulatory polynucleotides can be used for
 CC ameliorating a symptom of an infectious disease and IGF-related disorder.
 CC The IMP's may also be used for the treatment of a disorder associated
 CC with a T helper (TH)2-type immune response (e.g. allergies, allergy-
 CC induced asthma or atopic dermatitis), individuals receiving vaccines such
 CC as therapeutic vaccines (e.g. vaccines comprising an allergy epitope, a
 CC mycobacterial epitope or a tumour associated epitope) or prophylactic
 CC vaccines. The IMP's can also be used for the treatment of e.g. food
 CC allergies, rhinitis, atopic dermatitis, conjunctivitis, urticaria, shock,
 CC Hymenoptera sting allergies and drug allergies and parasitic infections;
 CC viral disease e.g. Hepatitis B, Hepatitis C, Influenza, Acquired
 CC immunodeficiency syndrome (AIDS) and Herpes zoster; and cancer;
 CC inflammatory disorder e.g. ulcerative colitis; fibrotic disorder e.g.
 CC idiopathic pulmonary fibrosis, scleroderma, cutaneous radiation-induced
 CC fibrosis, hepatic fibrosis including schistosomiasis-induced hepatic
 CC fibrosis, renal fibrosis. The IMP's may also be used to create a
 CC prophylactic vaccine to increase resistance to infection by bacterial or
 CC viral pathogens. The immunomodulatory polynucleotide modulates an immune
 CC response; or increases interferon-gamma; or interferon-alpha; effectively
 CC stimulates cytokines including type I interferons e.g. IFN-alpha and IFN-
 CC omega and IFN-gamma, production from human cells; effectively stimulates
 CC B cells to proliferate; and activates plasmacytoid dendritic cells to
 CC undergo maturation which can result in retardation of plasmacytoid
 CC dendritic cell apoptosis in culture. This polynucleotide sequence
 CC represents an immunomodulatory polynucleotide of the invention.
 XX

SQ Sequence 21 BP; 6 A; 6 C; 4 G; 5 T; 0 U; 0 Other;
 Query Match 100.0%; Score 21; DB 13; Length 21;
 Best Local Similarity 100.0%; Pred. NO. 0.37;
 Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY . 1 TCGTCGAACGTTCCGAGATGAT 21
 |||||
 DB 21 TCGTCGAACGTTCCGAGATGAT 1
 |||||
 RESULT 6
 ADQ16924
 ID ADQ16924 standard; DNA; 21 BP.
 XX
 AC ADQ16924;
 XX
 DT 07-OCT-2004 (first entry)
 XX
 DE Immunomodulatory polynucleotide, SEQ ID NO 218.
 XX
 KW Immunomodulatory polynucleotide; IMP; palindromic sequence; dinucleotide;
 KW trinucleotide; antimicrobial; antiallergic; antiasthmatic;
 KW dermatological; antiinflammatory; ophthalmological; immunosuppressive;
 KW antibacterial; vasotropic; antiparasitic; virucide; hepatotropic;
 KW anti-HIV; cytostatic; antiulcer; nephrotropic; IGF-related disorder;
 KW T helper; (TH)2-type immune response; vaccine; prophylactic; immune;
 KW interferon-gamma; interferon-alpha; type I interferon; IFN-alpha;
 KW IFN-omega; IFN-gamma; plasmacytoid dendritic cell; ss.
 XX
 OS Unidentified.
 XX
 PN WO2004058179-A2.
 XX
 PD 15-JUL-2004.
 XX
 PF 18-DEC-2003; 2003WO-US041001.
 XX
 PR 23-DEC-2002; 2002US-0436122P.
 PR 13-FEB-2003; 2003US-0447885P.
 PR 01-MAY-2003; 2003US-0467546P.
 XX
 XX PA (DYNA-) DYNAVAX TECHNOLOGIES.
 XX
 XX PI Dina D, Fearon KL, Marshall J;
 XX
 XX DR WPI; 2004-525782/50.
 XX
 XX PT Immunomodulatory polynucleotide useful for the treatment of e.g. atopic
 XX dermatitis comprising palindromic sequence comprising at least eight bases
 XX in length, which contains at least two dinucleotides and at least one
 XX trinucleotide.
 XX
 XX PS Disclosure; SEQ ID NO 218; 119pp; English.
 XX
 CC The invention relates to a novel immunomodulatory polynucleotide (IMP)
 CC comprising a palindromic sequence. The palindromic sequence comprises at
 CC least 8 bases in length, which contains at least two dinucleotides (CG),
 CC and at least one trinucleotide (TCG)Y at or near the 5' end of the
 CC polynucleotide. The CG dinucleotides are separated by 0 - 5 bases. The 5'
 CC T of the (TCG)Y is positioned 0 - 3 bases from the 5' end of the
 CC palindromic sequence. The (TCG)Y is separated from the 5' end of the
 CC polynucleotide sequence by 0 - 2 bases. The palindromic sequence includes
 CC all or part of the (TCG)Y sequence, where Y= 1 or 2. The immunomodulatory
 CC polynucleotides have the following activities: antimicrobial,
 CC antiallergic, antiasthmatic, dermatological, antiinflammatory,
 CC ophthalmological, immunosuppressive, antibacterial, vasotropic,
 CC antiparasitic, virucide, hepatotropic, anti-HIV, cytostatic, antiulcer,
 CC and nephrotropic. The immunomodulatory polynucleotides can be used for
 CC ameliorating a symptom of an infectious disease and IGF-related disorder.
 CC The IMP's may also be used for the treatment of a disorder associated
 CC with a T helper (TH)2-type immune response (e.g. allergies, allergy-
 CC induced asthma or atopic dermatitis), individuals receiving vaccines such
 CC as therapeutic vaccines (e.g. vaccines comprising an allergy epitope, a
 CC mycobacterial epitope or a tumour associated epitope) or prophylactic
 CC vaccines. The IMP's can also be used for the treatment of e.g. food
 CC allergies, rhinitis, atopic dermatitis, conjunctivitis, urticaria, shock,
 CC Hymenoptera sting allergies and drug allergies and parasitic infections;
 CC viral disease e.g. Hepatitis B, Hepatitis C, Influenza, Acquired
 CC immunodeficiency syndrome (AIDS) and Herpes zoster; and cancer;
 CC inflammatory disorder e.g. ulcerative colitis; fibrotic disorder e.g.
 CC idiopathic pulmonary fibrosis, scleroderma, cutaneous radiation-induced
 CC fibrosis, hepatic fibrosis including schistosomiasis-induced hepatic
 CC fibrosis, renal fibrosis. The IMP's may also be used to create a
 CC prophylactic vaccine to increase resistance to infection by bacterial or
 CC viral pathogens. The immunomodulatory polynucleotide modulates an immune
 CC response; or increases interferon-gamma; or interferon-alpha; effectively
 CC stimulates cytokines including type I interferons e.g. IFN-alpha and IFN-
 CC omega and IFN-gamma, production from human cells; effectively stimulates
 CC B cells to proliferate; and activates plasmacytoid dendritic cells to
 CC undergo maturation which can result in retardation of plasmacytoid
 CC dendritic cell apoptosis in culture. This polynucleotide sequence
 CC represents an immunomodulatory polynucleotide of the invention.
 XX

as therapeutic vaccines (e.g. vaccines comprising an allergy epitope, a mycobacterial epitope or a tumour associated epitope) or prophylactic vaccines. The IMP's can also be used for the treatment of e.g. food allergies, rhinitis, atopic dermatitis, conjunctivitis, urticaria, shock, Hymenoptera sting allergies and drug allergies and parasitic infections; viral disease e.g. Hepatitis B, Hepatitis C, influenza, Acquired immunodeficiency syndrome (AIDS) and Herpes zoster; and cancer; inflammatory disorder e.g. ulcerative colitis; fibrotic disorder e.g. idiopathic pulmonary fibrosis, scleroderma, cutaneous radiation-induced fibrosis, hepatic fibrosis including schistosomiasis-induced hepatic fibrosis, renal fibrosis. The IMP's may also be used to create a prophylactic vaccine to increase resistance to infection by bacterial or viral pathogens. The immunomodulatory polynucleotide modulates an immune response; or increases interferon-gamma; or interferon-alpha; effectively stimulates cytokines including type I interferons e.g. IFN-alpha and IFN-omega and IFN-gamma, production from human cells; effectively stimulates B cells to proliferate; and activates plasmacytoid dendritic cells to undergo maturation which can result in retardation of plasmacytoid dendritic cell apoptosis in culture. This polynucleotide sequence represents an immunomodulatory polynucleotide of the invention.

Query Match 100.0%; Score 21; DB 13; Length 21;
Best Local Similarity 100.0%; Pred. No. 0.37;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCGTCGAACGTTTCGAGATGAT 21
Db 1 TCGTCGAACGTTTCGAGATGAT 21

RESULT 7
ADQ16748
ID ADQ16748 standard; DNA; 21 BP.
AC ADQ16748;
XX 07-OCT-2004 (first entry)
XX Immunomodulatory polynucleotide, SEQ ID No 27.

Immunomodulatory polynucleotide; IMP; palindromic sequence; dinucleotide; trinucleotide; antimicrobial; anti-allergic; antiaesthmic; dermatological; anti-inflammatory; ophthalmological; immunosuppressive; antibacterial; vasotropic; antiparasitic; virucide; hepatotropic; anti-HIV; cytostatic; antiulcer; nephrotropic; Igs-related disorder; T helper; (Th)2-type immune response; vaccine; prophylactic; immune; interferon-gamma; interferon-alpha; type I interferon; IFN-alpha; IFN-omega; IFN-gamma; plasmacytoid dendritic cell; ss.

Unidentified.

WO2004058179-A2.

15-JUL-2004.

18-DEC-2003; 2003WO-US041001.

23-DEC-2002; 2002US-0436122P.

13-FEB-2003; 2003US-0447885P.

01-MAY-2003; 2003US-0467546P.

(DYNA-) DYNAVAX TECHNOLOGIES.

Dina D, Fearon KL, Marshall J;

WPI; 2004-525782/50.

Immunomodulatory polynucleotide useful for the treatment of e.g. atopic dermatitis comprises palindromic sequence comprising at least eight bases in length, which contains at least two dinucleotides and at least one trinucleotide.

XX Claim 9; SEQ ID NO 27; 119pp; English.

The invention relates to a novel immunomodulatory polynucleotide (IMP) comprising a palindromic sequence. The palindromic sequence comprises at least 8 bases in length, which contains at least two dinucleotides (CG), and at least one trinucleotide (TCG)ly at or near the 5' end of the polynucleotide. The CG dinucleotides are separated by 0 - 5 bases. The 5' T of the (TCG)ly is positioned 0 - 3 bases from the 5' end of the polynucleotide. The (TCG)ly is separated from the 5' end of the palindromic sequence by 0 - 2 bases. The palindromic sequence includes all or part of the (TCG)ly sequence, where y= 1 or 2. The immunomodulatory polynucleotides have the following activities: antimicrobial, anti-allergic, antiaesthmic, dermatological, anti-inflammatory, ophthalmological, immunosuppressive, antibacterial, vasotropic, antiparasitic, virucide, hepatotropic, anti-HIV, cytostatic, antiulcer, and nephrotropic. The immunomodulatory polynucleotides can be used for ameliorating a symptom of an infectious disease and Igs-related disorder. The IMP's may also be used for the treatment of a disorder associated with a T helper (Th)2-type immune response (e.g. allergies, allergy-induced asthma or atopic dermatitis), individuals receiving vaccines such as therapeutic vaccines (e.g. vaccines comprising an allergy epitope, a mycobacterial epitope or a tumour associated epitope) or prophylactic vaccines. The IMP's can also be used for the treatment of e.g. food allergies, rhinitis, atopic dermatitis, conjunctivitis, urticaria, shock, Hymenoptera sting allergies and drug allergies and parasitic infections; viral disease e.g. Hepatitis B, Hepatitis C, influenza, Acquired immunodeficiency syndrome (AIDS) and Herpes zoster; and cancer; inflammatory disorder e.g. ulcerative colitis; fibrotic disorder e.g. idiopathic pulmonary fibrosis, scleroderma, cutaneous radiation-induced fibrosis, hepatic fibrosis including schistosomiasis-induced hepatic fibrosis, renal fibrosis. The IMP's may also be used to create a prophylactic vaccine to increase resistance to infection by bacterial or viral pathogens. The immunomodulatory polynucleotide modulates an immune response; or increases interferon-gamma; or interferon-alpha; effectively stimulates cytokines including type I interferons e.g. IFN-alpha and IFN-omega and IFN-gamma, production from human cells; effectively stimulates B cells to proliferate; and activates plasmacytoid dendritic cells to undergo maturation which can result in retardation of plasmacytoid dendritic cell apoptosis in culture. This polynucleotide sequence represents an immunomodulatory polynucleotide of the invention.

Sequence 21 BP; 5 A; 4 C; 6 G; 6 T; 0 U; 0 Other;

Query Match 100.0%; Score 21; DB 13; Length 21;

Best Local Similarity 100.0%; Pred. No. 0.37;

Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCGTCGAACGTTTCGAGATGAT 21

Db 1 TCGTCGAACGTTTCGAGATGAT 21

RESULT 8

ADQ16895

ID ADQ16895 standard; DNA; 21 BP.

AC ADQ16895;

XX 07-OCT-2004 (first entry)

Immunomodulatory polynucleotide, SEQ ID No 189.

Immunomodulatory polynucleotide; IMP; palindromic sequence; dinucleotide; trinucleotide; antimicrobial; anti-allergic; antiaesthmic; dermatological; anti-inflammatory; ophthalmological; immunosuppressive; antibacterial; vasotropic; antiparasitic; virucide; hepatotropic; anti-HIV; cytostatic; antiulcer; nephrotropic; Igs-related disorder; T helper; (Th)2-type immune response; vaccine; prophylactic; immune; interferon-gamma; interferon-alpha; type I interferon; IFN-alpha; IFN-omega; IFN-gamma; plasmacytoid dendritic cell; ss.

Unidentified.

XX PN WO2004058179-A2.
 XX PD 15-JUL-2004.
 XX PF 18-DEC-2003; 2003WO-US041001.
 XX PR 23-DEC-2002; 2002US-0436122P.
 XX PR 13-FEB-2003; 2003US-0447885P.
 XX PR 01-MAY-2003; 2003US-0467546P.
 XX PA (DYNA-) DYNAVAX TECHNOLOGIES.
 XX PI Dina D, Fearon KL, Marshall J;
 XX WPI; 2004-525782/50.
 XX DR Immunomodulatory polynucleotide useful for the treatment of e.g. atopic
 XX PT dermatitis comprising palindromic sequence comprising at least eight bases
 XX PT in length, which contains at least two dinucleotides and at least one
 XX PT trinucleotide.
 XX PS Example 1; SEQ ID NO 189; 119pp; English.
 XX CC The invention relates to a novel immunomodulatory polynucleotide (IMP)
 XX CC comprising a palindromic sequence. The palindromic sequence comprises at
 XX CC least 8 bases in length, which contains at least two dinucleotides (CG),
 XX CC and at least one trinucleotide (TCG) at or near the 5' end of the
 XX CC polynucleotide. The CG dinucleotides are separated by 0 - 5 bases. The 5'
 XX CC T of the (TCG) is positioned 0 - 3 bases from the 5' end of the
 XX CC polynucleotide. The (TCG) is separated from the 5' end of the
 XX CC palindromic sequence by 0 - 2 bases. The palindromic sequence includes
 XX CC all or part of the (TCG) sequence, where y= 1 or 2. The immunomodulatory
 XX CC polynucleotides have the following activities: antimicrobial,
 XX CC anti-allergic, antiasthmatic, dermatological, antiinflammatory,
 XX CC ophthalmological, immunosuppressive, antibacterial, vasotropic,
 XX CC antiparasitic, virucide, hepatotropic, anti-HIV, cytostatic, antiulcer,
 XX CC and nephrotropic. The immunomodulatory polynucleotides can be used for
 XX CC ameliorating a symptom of an infectious disease and Igs-related disorder.
 XX CC The IMP's may also be used for the treatment of a disorder associated
 XX CC with a T helper (TH)2-type immune response (e.g. allergies, allergy-
 XX CC induced asthma or atopic dermatitis), individuals receiving vaccines such
 XX CC as therapeutic vaccines (e.g. vaccines comprising an allergy epitope, a
 XX CC mycobacterial epitope or a tumour associated epitope) or prophylactic
 XX CC vaccines. The IMP's can also be used for the treatment of e.g. food
 XX CC allergies, rhinitis, atopic dermatitis, conjunctivitis, urticaria, shock,
 XX CC Hymenoptera sting allergies and drug allergies and parasitic infections;
 XX CC viral disease e.g. Hepatitis B, Hepatitis C, influenza, Acquired
 XX CC immunodeficiency syndrome (AIDS) and Herpes zoster; and cancer;
 XX CC inflammatory disorder e.g. ulcerative colitis; fibrotic disorder e.g.
 XX CC idiopathic pulmonary fibrosis, scleroderma, cutaneous radiation-induced
 XX CC fibrosis, renal fibrosis. The IMP's may also be used to create a
 XX CC prophylactic vaccine to increase resistance to infection by bacterial or
 XX CC viral pathogens. The immunomodulatory polynucleotide modulates an immune
 XX CC response; or increases interferon-gamma; or interferon-alpha; effectively
 XX CC stimulates cytokines including type I interferons e.g. IFN-alpha and IFN-
 XX CC omega and IFN-gamma, production from human cells; effectively stimulates
 XX CC B cells to proliferate; and activates plasmacytoid dendritic cells to
 XX CC undergo maturation which can result in retardation of plasmacytoid
 XX CC dendritic cell apoptosis in culture. This polynucleotide sequence
 XX CC represents an immunomodulatory polynucleotide of the invention.
 XX SQ Sequence 21 BP; 5 A; 4 C; 6 G; 6 T; 0 U; 0 Other;
 Query Match 100.0%; Score 21; DB 13; Length 21;
 Best Local Similarity 100.0%; Pred. No. 0.37;
 Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 TCGTCGAACGTTCCGAGATGAT 21
 |||||
 DB 1 TCGTCGAACGTTCCGAGATGAT 21

RESULT 9
 ADQ16898/c
 ID ADQ16898 standard; DNA; 21 BP.
 XX AC ADQ16898;
 XX DT 07-OCT-2004 (first entry)
 XX DE Immunomodulatory polynucleotide, SEQ ID NO 192.
 XX KW Immunomodulatory polynucleotide; IMP; palindromic sequence; dinucleotide;
 KW trinucleotide; antimicrobial; anti-allergic; antiasthmatic;
 KW dermatological; antiinflammatory; ophthalmological; immunosuppressive;
 KW antibacterial; vasotropic; antiparasitic; virucide; hepatotropic;
 KW anti-HIV; cytostatic; antiulcer; nephrotropic; Igs-related disorder;
 KW T helper; (TH)2-type immune response; vaccine; prophylactic; immune;
 KW interferon-gamma; interferon-alpha; type I interferon; IFN-alpha;
 KW IFN-omega; IFN-gamma; plasmacytoid dendritic cell; ss.
 XX OS Unidentified.
 XX PN WO2004058179-A2.
 XX PD 15-JUL-2004.
 XX PF 18-DEC-2003; 2003WO-US041001.
 XX PR 23-DEC-2002; 2002US-0436122P.
 XX PR 13-FEB-2003; 2003US-0447885P.
 XX PR 01-MAY-2003; 2003US-0467546P.
 XX PA (DYNA-) DYNAVAX TECHNOLOGIES.
 XX PI Dina D, Fearon KL, Marshall J;
 XX WPI; 2004-525782/50.
 XX DR Immunomodulatory polynucleotide useful for the treatment of e.g. atopic
 XX PT dermatitis comprising palindromic sequence comprising at least eight bases
 XX PT in length, which contains at least two dinucleotides and at least one
 XX PT trinucleotide.
 XX PS Disclosure; SEQ ID NO 192; 119pp; English.
 XX CC The invention relates to a novel immunomodulatory polynucleotide (IMP)
 XX CC comprising a palindromic sequence. The palindromic sequence comprises at
 XX CC least 8 bases in length, which contains at least two dinucleotides (CG),
 XX CC and at least one trinucleotide (TCG) at or near the 5' end of the
 XX CC polynucleotide. The CG dinucleotides are separated by 0 - 5 bases. The 5'
 XX CC T of the (TCG) is positioned 0 - 3 bases from the 5' end of the
 XX CC polynucleotide. The (TCG) is separated from the 5' end of the
 XX CC palindromic sequence by 0 - 2 bases. The palindromic sequence includes
 XX CC all or part of the (TCG) sequence, where y= 1 or 2. The immunomodulatory
 XX CC polynucleotides have the following activities: antimicrobial,
 XX CC anti-allergic, antiasthmatic, dermatological, antiinflammatory,
 XX CC ophthalmological, immunosuppressive, antibacterial, vasotropic,
 XX CC antiparasitic, virucide, hepatotropic, anti-HIV, cytostatic, antiulcer,
 XX CC and nephrotropic. The immunomodulatory polynucleotides can be used for
 XX CC ameliorating a symptom of an infectious disease and Igs-related disorder.
 XX CC The IMP's may also be used for the treatment of a disorder associated
 XX CC with a T helper (TH)2-type immune response (e.g. allergies, allergy-
 XX CC induced asthma or atopic dermatitis), individuals receiving vaccines such
 XX CC as therapeutic vaccines (e.g. vaccines comprising an allergy epitope, a
 XX CC mycobacterial epitope or a tumour associated epitope) or prophylactic
 XX CC vaccines. The IMP's can also be used for the treatment of e.g. food
 XX CC allergies, rhinitis, atopic dermatitis, conjunctivitis, urticaria, shock,
 XX CC Hymenoptera sting allergies and drug allergies and parasitic infections;
 XX CC viral disease e.g. Hepatitis B, Hepatitis C, influenza, Acquired
 XX CC immunodeficiency syndrome (AIDS) and Herpes zoster; and cancer;
 XX CC inflammatory disorder e.g. ulcerative colitis; fibrotic disorder e.g.
 XX CC idiopathic pulmonary fibrosis, scleroderma, cutaneous radiation-induced
 XX CC fibrosis, renal fibrosis. The IMP's may also be used to create a
 XX CC prophylactic vaccine to increase resistance to infection by bacterial or
 XX CC viral pathogens. The immunomodulatory polynucleotide modulates an immune
 XX CC response; or increases interferon-gamma; or interferon-alpha; effectively
 XX CC stimulates cytokines including type I interferons e.g. IFN-alpha and IFN-
 XX CC omega and IFN-gamma, production from human cells; effectively stimulates
 XX CC B cells to proliferate; and activates plasmacytoid dendritic cells to
 XX CC undergo maturation which can result in retardation of plasmacytoid
 XX CC dendritic cell apoptosis in culture. This polynucleotide sequence
 XX CC represents an immunomodulatory polynucleotide of the invention.

CC fibrosis, renal fibrosis. The IMP's may also be used to create a
 CC prophylactic vaccine to increase resistance to infection by bacterial
 CC viral pathogens. The immunomodulatory polynucleotide modulates an immune
 CC response; or increases interferon-gamma; or interferon-alpha; effectively
 CC stimulates cytokines including type I interferons e.g. IFN-alpha and IFN-
 CC omega and IFN-gamma, production from human cells; effectively stimulates
 CC B cells to proliferate; and activates plasmacytoid dendritic cells to
 CC undergo maturation which can result in retardation of plasmacytoid
 CC dendritic cell apoptosis in culture. This polynucleotide sequence
 CC represents an immunomodulatory polynucleotide of the invention.
 XX
 SQ Sequence 21 BP; 6 A; 6 C; 4 G; 5 T; 0 U; 0 Other;

Query Match 100.0%; Score 21; DB 13; Length 21;
 Best Local Similarity 100.0%; Pred. No. 0.37;
 Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCGTCGAACGTTCCGAGATGAT 21
 Db 21 TCGTCGAACGTTCCGAGATGAT 1

RESULT 10
 ADQ16901
 ID ADQ16901 standard; DNA; 21 BP.
 AC ADQ16901;
 XX
 DT 07-OCT-2004 (first entry)
 DE Immunomodulatory polynucleotide, SEQ ID No 195.
 XX

Immunomodulatory polynucleotide; IMP; palindromic sequence; dinucleotide;
 trinucleotide; antimicrobial; anti-allergic; antiasthmatic;
 dermatological; antiinflammatory; ophthalmological; immunosuppressive;
 antibacterial; vasotropic; antiparasitic; virucide; hepatotropic;
 anti-HIV; cytostatic; antiulcer; nephrotropic; IGF-related disorder;
 T helper; (TH)2-type immune response; vaccine; prophylactic; immune;
 interferon-gamma; interferon-alpha; type I interferon; IFN-alpha;
 IFN-omega; IFN-gamma; plasmacytoid dendritic cell; ss.
 XX
 OS Unidentified.

FN WO2004058179-A2.

XX 15-JUL-2004.

XX 18-DEC-2003; 2003WO-US041001.

XX 23-DEC-2002; 2002US-0436122P.

PR 13-FEB-2003; 2003US-0447885P.

PR 01-MAY-2003; 2003US-0467546P.

XX (DYNA-) DYNAVAX TECHNOLOGIES.

XX Dina D, Fearon KL, Marshall J;

XX WPI; 2004-525782/50.

XX Immunomodulatory polynucleotide useful for the treatment of e.g. atopic
 PT dermatitis comprises palindromic sequence comprising at least eight bases
 PT in length, which contains at least two dinucleotides and at least one
 PT trinucleotide.
 XX

PS Disclosure; SEQ ID NO 195; 119pp; English.

XX The invention relates to a novel immunomodulatory polynucleotide (IMP)
 CC comprising a palindromic sequence. The palindromic sequence comprises at
 CC least 8 bases in length, which contains at least two dinucleotides (CG),
 CC and at least one trinucleotide (TCG) at or near the 5' end of the
 CC polynucleotide. The CG dinucleotides are separated by 0 - 5 bases. The 5'
 CC T of the (TCG) is positioned 0 - 3 bases from the 5' end of the
 CC polynucleotide. The (TCG) is separated from the 5' end of the

CC palindromic sequence by 0 - 2 bases. The palindromic sequence includes
 CC all or part of the (TCG) sequence, where y= 1 or 2. The immunomodulatory
 CC polynucleotides have the following activities: antimicrobial,
 CC anti-allergic, antiasthmatic, dermatological, antiinflammatory,
 CC ophthalmological, immunosuppressive, antibacterial, vasotropic,
 CC antiparasitic, virucide, hepatotropic, anti-HIV, cytostatic, antiulcer,
 CC and nephrotropic. The immunomodulatory polynucleotides can be used for
 CC ameliorating a symptom of an infectious disease and IGF-related disorder.
 CC The IMP's may also be used for the treatment of a disorder associated
 CC with a T helper (TH)2-type immune response (e.g. allergies, allergy-
 CC induced asthma or atopic dermatitis), individuals receiving vaccines such
 CC as therapeutic vaccines (e.g. vaccines comprising an allergy epitope, a
 CC mycobacterial epitope or a tumour associated epitope) or prophylactic
 CC vaccines. The IMP's can also be used for the treatment of e.g. food
 CC allergies, rhinitis, atopic dermatitis, conjunctivitis, urticaria, shock,
 CC Hymenoptera sting allergies and drug allergies and parasitic infections;
 CC viral disease e.g. Hepatitis B, Hepatitis C, Influenza, Acquired
 CC immunodeficiency syndrome (AIDS) and Herpes zoster; and cancer;
 CC inflammatory disorder e.g. ulcerative colitis; fibrotic disorder e.g.
 CC idiopathic pulmonary fibrosis, scleroderma, cutaneous radiation-induced
 CC fibrosis, hepatic fibrosis including schistosomiasis-induced hepatic
 CC fibrosis, renal fibrosis. The IMP's may also be used to create a
 CC prophylactic vaccine to increase resistance to infection by bacterial or
 CC viral pathogens. The immunomodulatory polynucleotide modulates an immune
 CC response; or increases interferon-gamma; or interferon-alpha; effectively
 CC stimulates cytokines including type I interferons e.g. IFN-alpha and IFN-
 CC omega and IFN-gamma, production from human cells; effectively stimulates
 CC B cells to proliferate; and activates plasmacytoid dendritic cells to
 CC undergo maturation which can result in retardation of plasmacytoid
 CC dendritic cell apoptosis in culture. This polynucleotide sequence
 CC represents an immunomodulatory polynucleotide of the invention.
 XX

SQ Sequence 21 BP; 5 A; 4 C; 6 G; 6 T; 0 U; 0 Other;

Query Match 100.0%; Score 21; DB 13; Length 21;

Best Local Similarity 100.0%; Pred. No. 0.37;

Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCGTCGAACGTTCCGAGATGAT 21

Db 1 TCGTCGAACGTTCCGAGATGAT 21

RESULT 11

ADQ16922/c

ID ADQ16922 standard; DNA; 21 BP.

XX ADQ16922;

XX 07-OCT-2004 (first entry)

XX Immunomodulatory polynucleotide, SEQ ID No 216.

XX Immunomodulatory polynucleotide; IMP; palindromic sequence; dinucleotide;
 KW trinucleotide; antimicrobial; anti-allergic; antiasthmatic;
 KW dermatological; antiinflammatory; ophthalmological; immunosuppressive;
 KW antibacterial; vasotropic; antiparasitic; virucide; hepatotropic;
 KW anti-HIV; cytostatic; antiulcer; nephrotropic; IGF-related disorder;
 KW T helper; (TH)2-type immune response; vaccine; prophylactic; immune;
 KW interferon-gamma; interferon-alpha; type I interferon; IFN-alpha;
 KW IFN-omega; IFN-gamma; plasmacytoid dendritic cell; ss.
 XX

OS Unidentified.

XX WO2004058179-A2.

XX 15-JUL-2004.

XX 18-DEC-2003; 2003WO-US041001.

PR 23-DEC-2002; 2002US-0436122P.

PR 13-FEB-2003; 2003US-0447885P.

PR 01-MAY-2003; 2003US-0467546P.

XX PA (DYNA-) DYNAVAX TECHNOLOGIES.

XX PI Dina D, Fearon KL, Marshall J;

XX DR WPI; 2004-525782/50.

XX PT Immunomodulatory polynucleotide useful for the treatment of e.g. atopic

PT dermatitis comprises palindromic sequence comprising at least eight bases

PT in length, which contains at least two dinucleotides and at least one

PT trinucleotide.

XX PS Disclosure; SEQ ID NO 216; 119pp; English.

XX PD The invention relates to a novel immunomodulatory polynucleotide (IMP)

CC comprising a palindromic sequence. The palindromic sequence comprises at

CC least 8 bases in length, which contains at least two dinucleotides (CG),

CC and at least one trinucleotide (TCG)y at or near the 5' end of the

CC polynucleotide. The CG dinucleotides are separated by 0 - 5 bases. The 5'

CC T of the (TCG)y is positioned 0 - 3 bases from the 5' end of the

CC polynucleotide. The (TCG)y is separated from the 5' end of the

CC palindromic sequence by 0 - 2 bases. The palindromic sequence includes

CC all or part of the (TCG)y sequence, where y= 1 or 2. The immunomodulatory

CC polynucleotides have the following activities: antimicrobial,

CC anti-allergic, antiasthmatic, dermatological, antibacterial, vasotropic,

CC antiparasitic, virucide, hepatotropic, anti-HIV, cytostatic, antiulcer,

CC and nephrotropic. The immunomodulatory polynucleotides can be used for

CC ameliorating a symptom of an infectious disease and IGE-related disorder.

CC The IMP's may also be used for the treatment of a disorder associated

CC with a T helper (TH)2-type immune response (e.g. allergies, allergy-

CC induced asthma or atopic dermatitis), individuals receiving vaccines such

CC as therapeutic vaccines (e.g. vaccines comprising an allergy epitope, a

CC mycobacterial epitope or a tumour associated epitope) or prophylactic

CC vaccines. The IMP's can also be used for the treatment of e.g. food

CC allergies, rhinitis, atopic dermatitis, conjunctivitis, urticaria, shock,

CC Hymenoptera sting allergies and drug allergies and parasitic infections;

CC viral disease e.g. Hepatitis B, Hepatitis C, influenza, Acquired

CC immunodeficiency syndrome (AIDS) and Herpes zoster; and cancer;

CC inflammatory disorder e.g. ulcerative colitis; fibrotic disorder e.g.

CC idiopathic pulmonary fibrosis, scleroderma, cutaneous radiation-induced

CC fibrosis, hepatic fibrosis including schistosomiasis-induced hepatic

CC fibrosis, renal fibrosis. The IMP's may also be used to create a

CC prophylactic vaccine to increase resistance to infection by bacterial or

CC viral pathogens. The immunomodulatory polynucleotide modulates an immune

CC response; or increases interferon-gamma; or interferon-alpha; effectively

CC stimulates cytokines including type I interferons e.g. IFN-alpha and IFN-

CC omega and IFN-gamma, production from human cells; effectively stimulates

CC B cells to proliferate; and activates plasmacytoid dendritic cells to

CC undergo maturation which can result in retardation of plasmacytoid

CC dendritic cell apoptosis in culture. This polynucleotide sequence

CC represents an immunomodulatory polynucleotide of the invention.

XX SQ Sequence 21 BP; 6 A; 6 C; 4 G; 5 T; 0 U; 0 Other;

Query Match 100.0%; Score 21; DB 13; Length 21;

Best Local Similarity 100.0%; Pred. No. 0.37; Indels 0; Gaps 0;

Matches 21; Conservative 0; Mismatches 0;

QY 1 TCGTCGACGTTTCGAGATGAT 21

|||||

DB 21 TCGTCGACGTTTCGAGATGAT 1

|||||

RESULT 12

ADQ16938

ID ADQ16938 standard; DNA; 21 BP.

XX AC ADQ16938;

XX DT 07-OCT-2004 (first entry)

XX DE Immunomodulatory polynucleotide, SEQ ID No 183.

XX KW Immunomodulatory polynucleotide; IMP; palindromic sequence; dinucleotide;

KW trinucleotide; antimicrobial; anti-allergic; antiasthmatic;

KW dermatological; antiinflammatory; ophthalmological; immunosuppressive;

KW antibacterial; vasotropic; antiparasitic; virucide; hepatotropic;

KW anti-HIV; cytostatic; antiulcer; nephrotropic; IGE-related disorder;

KW T helper; (TH)2-type immune response; vaccine; prophylactic; immune;

KW interferon-gamma; interferon-alpha; type I interferon; IFN-alpha;

KW IFN-omega; IFN-gamma; plasmacytoid dendritic cell; ds.

XX OS Unidentified.

XX PN WO2004058179-A2.

XX PD 15-JUL-2004.

XX PF 18-DEC-2003; 2003WO-US041001.

XX PR 23-DEC-2002; 2002US-0436122P.

PR 13-FEB-2003; 2003US-0447885P.

PR 01-MAY-2003; 2003US-0467546P.

XX PA (DYNA-) DYNAVAX TECHNOLOGIES.

XX PI Dina D, Fearon KL, Marshall J;

XX DR WPI; 2004-525782/50.

XX PT Immunomodulatory polynucleotide useful for the treatment of e.g. atopic

PT dermatitis comprises palindromic sequence comprising at least eight bases

PT in length, which contains at least two dinucleotides and at least one

PT trinucleotide.

XX PS Disclosure; SEQ ID NO 183; 119pp; English.

XX PD The invention relates to a novel immunomodulatory polynucleotide (IMP)

CC comprising a palindromic sequence. The palindromic sequence comprises at

CC least 8 bases in length, which contains at least two dinucleotides (CG),

CC and at least one trinucleotide (TCG)y at or near the 5' end of the

CC polynucleotide. The CG dinucleotides are separated by 0 - 5 bases. The 5'

CC T of the (TCG)y is positioned 0 - 3 bases from the 5' end of the

CC polynucleotide. The (TCG)y is separated from the 5' end of the

CC palindromic sequence by 0 - 2 bases. The palindromic sequence includes

CC all or part of the (TCG)y sequence, where y= 1 or 2. The immunomodulatory

CC polynucleotides have the following activities: antimicrobial,

CC anti-allergic, antiasthmatic, dermatological, antibacterial, vasotropic,

CC antiparasitic, virucide, hepatotropic, anti-HIV, cytostatic, antiulcer,

CC and nephrotropic. The immunomodulatory polynucleotides can be used for

CC ameliorating a symptom of an infectious disease and IGE-related disorder.

CC The IMP's may also be used for the treatment of a disorder associated

CC with a T helper (TH)2-type immune response (e.g. allergies, allergy-

CC induced asthma or atopic dermatitis), individuals receiving vaccines such

CC as therapeutic vaccines (e.g. vaccines comprising an allergy epitope, a

CC mycobacterial epitope or a tumour associated epitope) or prophylactic

CC vaccines. The IMP's can also be used for the treatment of e.g. food

CC allergies, rhinitis, atopic dermatitis, conjunctivitis, urticaria, shock,

CC Hymenoptera sting allergies and drug allergies and parasitic infections;

CC viral disease e.g. Hepatitis B, Hepatitis C, influenza, Acquired

CC immunodeficiency syndrome (AIDS) and Herpes zoster; and cancer;

CC inflammatory disorder e.g. ulcerative colitis; fibrotic disorder e.g.

CC idiopathic pulmonary fibrosis, scleroderma, cutaneous radiation-induced

CC fibrosis, hepatic fibrosis including schistosomiasis-induced hepatic

CC fibrosis, renal fibrosis. The IMP's may also be used to create a

CC prophylactic vaccine to increase resistance to infection by bacterial or

CC viral pathogens. The immunomodulatory polynucleotide modulates an immune

CC response; or increases interferon-gamma; or interferon-alpha; effectively

CC stimulates cytokines including type I interferons e.g. IFN-alpha and IFN-

CC omega and IFN-gamma, production from human cells; effectively stimulates

CC B cells to proliferate; and activates plasmacytoid dendritic cells to

CC undergo maturation which can result in retardation of plasmacytoid

CC dendritic cell apoptosis in culture. This polynucleotide sequence

CC represents an immunomodulatory polynucleotide of the invention.

XX SQ Sequence 21 BP; 5 A; 4 C; 6 G; 6 T; 0 U; 0 Other;
 Query Match 100.0%; Score 21; DB 13; Length 21;
 Best Local Similarity 100.0%; Pred. No. 0.37;
 Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCGTCGAACGTCGAGATGAT 21
 |||||
 Db 1 TCGTCGAACGTCGAGATGAT 21
 |||||

RESULT 13
 ADQ16940
 ID ADQ16940 standard; DNA; 21 BP.
 AC ADQ16940;
 XX
 DT 07-OCT-2004 (first entry)
 XX
 DE Immunomodulatory polynucleotide, SEQ ID No 185.
 XX
 KW Immunomodulatory polynucleotide; IMP; palindromic sequence; dinucleotide;
 KW trinucleotide; antimicrobial; antiallergic; antiasthmatic;
 KW dermatological; antiinflammatory; ophthalmological; immunosuppressive;
 KW antibacterial; vasotropic; antiparasitic; virucide; hepatotropic;
 KW anti-HIV; cytostatic; antiulcer; nephrotropic; IGE-related disorder;
 KW T helper; (TH)2-type immune response; vaccine; prophylactic; immune;
 KW interferon-gamma; interferon-alpha; type I interferon; IFN-alpha;
 KW IFN-omega; IFN-gamma; plasmacytoid dendritic cell; ds.
 XX
 OS Unidentified.
 XX
 FN WO2004058179-A2.
 XX
 PD 15-JUL-2004.
 XX
 PF 18-DEC-2003; 2003WO-US041001.
 XX
 PR 23-DEC-2002; 2002US-0436122P.
 PR 13-FEB-2003; 2003US-0447885P.
 PR 01-MAY-2003; 2003US-0467546P.
 XX
 PA (DYNA-) DYNAVAX TECHNOLOGIES.
 XX
 PI Dina D, Fearon KL, Marshall J;
 XX
 DR WPI; 2004-525782/50.
 XX
 XX Immunomodulatory polynucleotide useful for the treatment of e.g. atopic
 PT dermatitis comprises palindromic sequence comprising at least eight bases
 PT in length, which contains at least two dinucleotides and at least one
 PT trinucleotide.
 XX
 PS Disclosure; SEQ ID NO 185; 119pp; English.
 XX
 XX The invention relates to a novel immunomodulatory polynucleotide (IMP)
 CC comprising a palindromic sequence. The palindromic sequence comprises at
 CC least 8 bases in length, which contains at least two dinucleotides (CG),
 CC and at least one trinucleotide (TCG) at or near the 5' end of the
 CC polynucleotide. The CG dinucleotides are separated by 0 - 5 bases. The 5'
 CC T of the (TCG) is positioned 0 - 3 bases from the 5' end of the
 CC polynucleotide. The (TCG) is separated from the 5' end of the
 CC palindromic sequence by 0 - 2 bases. The palindromic sequence includes
 CC all or part of the (TCG) sequence, where y = 1 or 2. The immunomodulatory
 CC polynucleotides have the following activities: antimicrobial,
 CC antiallergic, antiasthmatic, dermatological, antiinflammatory,
 CC ophthalmological, immunosuppressive, antibacterial, vasotropic,
 CC antiparasitic, virucide, hepatotropic, anti-HIV, cytostatic, antiulcer,
 CC and nephrotropic. The immunomodulatory polynucleotides can be used for
 CC ameliorating a symptom of an infectious disease and IGE-related disorder.
 CC The IMP's may also be used for the treatment of a disorder associated
 CC with a T helper (TH)2-type immune response (e.g. allergies, allergy-

CC induced asthma or atopic dermatitis), individuals receiving vaccines such
 CC as therapeutic vaccines (e.g. vaccines comprising an allergy epitope, a
 CC mycobacterial epitope or a tumour associated epitope) or prophylactic
 CC vaccines. The IMP's can also be used for the treatment of e.g. food
 CC allergies, rhinitis, atopic dermatitis, conjunctivitis, urticaria, shock,
 CC hymenoptera sting allergies and drug allergies and parasitic infections;
 CC viral disease e.g. Hepatitis B, Hepatitis C, Influenza, Acquired
 CC immunodeficiency syndrome (AIDS) and Herpes zoster; and cancer;
 CC inflammatory disorder e.g. ulcerative colitis; fibrotic disorder e.g.
 CC idiopathic pulmonary fibrosis, scleroderma, cutaneous radiation-induced
 CC fibrosis, hepatic fibrosis including schistosomiasis-induced hepatic
 CC fibrosis, renal fibrosis. The IMP's may also be used to create a
 CC prophylactic vaccine to increase resistance to infection by bacterial or
 CC viral pathogens. The immunomodulatory polynucleotide modulates an immune
 CC response; or increases interferon-gamma; or interferon-alpha; effectively
 CC stimulates cytokines including type I interferons e.g. IFN-alpha and IFN-
 CC omega and IFN-gamma, production from human cells; effectively stimulates
 CC B cells to proliferate; and activates plasmacytoid dendritic cells to
 CC undergo maturation which can result in retardation of plasmacytoid
 CC dendritic cell apoptosis in culture. This polynucleotide sequence
 CC represents an immunomodulatory polynucleotide of the invention.
 XX
 SQ Sequence 21 BP; 5 A; 4 C; 6 G; 6 T; 0 U; 0 Other;
 Query Match 100.0%; Score 21; DB 13; Length 21;
 Best Local Similarity 100.0%; Pred. No. 0.37;
 Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCGTCGAACGTCGAGATGAT 21
 |||||
 Db 1 TCGTCGAACGTCGAGATGAT 21
 |||||

RESULT 14
 ADQ16894
 ID ADQ16894 standard; DNA; 21 BP.
 XX
 AC ADQ16894;
 XX
 DT 07-OCT-2004 (first entry)
 XX
 DE Immunomodulatory polynucleotide, SEQ ID No 188.
 XX
 KW Immunomodulatory polynucleotide; IMP; palindromic sequence; dinucleotide;
 KW trinucleotide; antimicrobial; antiallergic; antiasthmatic;
 KW dermatological; antiinflammatory; ophthalmological; immunosuppressive;
 KW antibacterial; vasotropic; antiparasitic; virucide; hepatotropic;
 KW anti-HIV; cytostatic; antiulcer; nephrotropic; IGE-related disorder;
 KW T helper; (TH)2-type immune response; vaccine; prophylactic; immune;
 KW interferon-gamma; interferon-alpha; type I interferon; IFN-alpha;
 KW IFN-omega; IFN-gamma; plasmacytoid dendritic cell; ss.
 XX
 OS Unidentified.
 XX
 FN WO2004058179-A2.
 XX
 PD 15-JUL-2004.
 XX
 PF 18-DEC-2003; 2003WO-US041001.
 XX
 PR 23-DEC-2002; 2002US-0436122P.
 PR 13-FEB-2003; 2003US-0447885P.
 PR 01-MAY-2003; 2003US-0467546P.
 XX
 PA (DYNA-) DYNAVAX TECHNOLOGIES.
 XX
 PI Dina D, Fearon KL, Marshall J;
 XX
 DR WPI; 2004-525782/50.
 XX
 XX Immunomodulatory polynucleotide useful for the treatment of e.g. atopic
 PT dermatitis comprises palindromic sequence comprising at least eight bases
 PT in length, which contains at least two dinucleotides and at least one

PT trinucleotide.
 XX Example 1; SEQ ID NO 188; 119pp; English.
 XX
 CC The invention relates to a novel immunomodulatory polynucleotide (IMP) comprising a palindromic sequence. The palindromic sequence comprises at least 8 bases in length, which contains at least two dinucleotides (CG), and at least one trinucleotide (TCG)Y at or near the 5' end of the polynucleotide. The CG dinucleotides are separated by 0 - 5 bases. The 5' T of the (TCG)Y is positioned 0 - 3 bases from the 5' end of the polynucleotide. The (TCG)Y is separated from the 5' end of the palindromic sequence by 0 - 2 bases. The palindromic sequence includes all or part of the (TCG)Y sequence, where Y = 1 or 2. The immunomodulatory polynucleotides have the following activities: antimicrobial, anti-allergic, antiasthmatic, dermatological, antibacterial, antiinflammatory, opthalmological, immunosuppressive, antiviral, vasotrophic, antiparasitic, virucide, hepatotropic, anti-HIV, cytostatic, antiulcer, and nephrotropic. The immunomodulatory polynucleotides can be used for ameliorating a symptom of an infectious disease and Ige-related disorder. The IMP's may also be used for the treatment of a disorder associated with a T helper (TH)2-type immune response (e.g. allergies, allergy-induced asthma or atopic dermatitis), individuals receiving vaccines such as therapeutic vaccines (e.g. vaccines comprising an allergy epitope, a mycobacterial epitope or a tumour associated epitope) or prophylactic vaccines. The IMP's can also be used for the treatment of e.g. food allergies, rhinitis, atopic dermatitis, conjunctivitis, urticaria, shock, Hymenoptera sting allergies and drug allergies and parasitic infections; viral disease e.g. Hepatitis B, Hepatitis C, Influenza, Acquired immunodeficiency syndrome (AIDS) and Herpes zoster; and cancer; inflammatory disorder e.g. ulcerative colitis; fibrotic disorder e.g. idiopathic pulmonary fibrosis, scleroderma, cutaneous radiation-induced fibrosis, hepatic fibrosis including schistosomiasis-induced hepatic fibrosis, renal fibrosis. The IMP's may also be used to create a prophylactic vaccine to increase resistance to infection by bacterial or viral pathogens. The immunomodulatory polynucleotide modulates an immune response; or increases interferon-gamma; or interferon-alpha; effectively stimulates cytokines including type I interferons e.g. IFN-alpha and IFN-omega and IFN-gamma, production from human cells; effectively stimulates B cells to proliferate; and activates plasmacytoid dendritic cells to undergo maturation which can result in retardation of plasmacytoid dendritic cell apoptosis in culture. This polynucleotide sequence represents an immunomodulatory polynucleotide of the invention.
 SQ Sequence 21 BP; 5 A; 4 C; 6 G; 6 T; 0 U; 0 Other;
 Query Match 100.0%; Score 21; DB 13; Length 21;
 Best Local Similarity 100.0%; Pred. No. 0.37;
 Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 TCGTCGAACGTTTCGAGATGAT 21
 DB 1 TCGTCGAACGTTTCGAGATGAT 21
 RESULT 15
 ADQ16941
 ID ADQ16941 standard; DNA; 21 BP.
 XX
 AC ADQ16941;
 XX
 DT 07-OCT-2004 (first entry)
 XX
 DE Immunomodulatory polynucleotide, SEQ ID NO 186.
 XX
 KW Immunomodulatory polynucleotide; IMP; palindromic sequence; dinucleotide; trinucleotide; antimicrobial; anti-allergic; antiasthmatic; dermatological; antiinflammatory; opthalmological; immunosuppressive; antibacterial; vasotrophic; antiparasitic; virucide; hepatotropic; anti-HIV; cytostatic; antiulcer; nephrotropic; Ige-related disorder; T helper; (TH)2-type immune response; vaccine; prophylactic; immune; interferon-gamma; interferon-alpha; type I interferon; IFN-alpha; IFN-omega; IFN-gamma; plasmacytoid dendritic cell; ds.

OS Unidentified.
 XX WO2004058179-A2.
 XX
 PD 15-JUL-2004.
 XX
 XX 18-DEC-2003; 2003WO-US041001.
 XX
 PR 23-DEC-2002; 2002US-0436122P.
 PR 13-FEB-2003; 2003US-0447885P.
 PR 01-MAY-2003; 2003US-0467546P.
 XX
 PA (DYNA-) DYNAVAX TECHNOLOGIES.
 XX
 PI Dina D, Fearon KL, Marshall J;
 XX WPI; 2004-525782/50.
 DR
 XX Immunomodulatory polynucleotide useful for the treatment of e.g. atopic dermatitis comprises palindromic sequence comprising at least eight bases in length, which contains at least two dinucleotides and at least one trinucleotide.
 PT
 PT in length, which contains at least two dinucleotides and at least one trinucleotide.
 PT
 XX Disclosure: SEQ ID NO 186; 119pp; English.
 XX
 CC The invention relates to a novel immunomodulatory polynucleotide (IMP) comprising a palindromic sequence. The palindromic sequence comprises at least 8 bases in length, which contains at least two dinucleotides (CG), and at least one trinucleotide (TCG)Y at or near the 5' end of the polynucleotide. The CG dinucleotides are separated by 0 - 5 bases. The 5' T of the (TCG)Y is positioned 0 - 3 bases from the 5' end of the polynucleotide. The (TCG)Y is separated from the 5' end of the palindromic sequence by 0 - 2 bases. The palindromic sequence includes all or part of the (TCG)Y sequence, where Y = 1 or 2. The immunomodulatory polynucleotides have the following activities: antimicrobial, anti-allergic, antiasthmatic, dermatological, antibacterial, vasotrophic, opthalmological, immunosuppressive, antiviral, vasotrophic, antiparasitic, virucide, hepatotropic, anti-HIV, cytostatic, antiulcer, and nephrotropic. The immunomodulatory polynucleotides can be used for ameliorating a symptom of an infectious disease and Ige-related disorder. The IMP's may also be used for the treatment of a disorder associated with a T helper (TH)2-type immune response (e.g. allergies, allergy-induced asthma or atopic dermatitis), individuals receiving vaccines such as therapeutic vaccines (e.g. vaccines comprising an allergy epitope, a mycobacterial epitope or a tumour associated epitope) or prophylactic vaccines. The IMP's can also be used for the treatment of e.g. food allergies, rhinitis, atopic dermatitis, conjunctivitis, urticaria, shock, Hymenoptera sting allergies and drug allergies and parasitic infections; viral disease e.g. Hepatitis B, Hepatitis C, Influenza, Acquired immunodeficiency syndrome (AIDS) and Herpes zoster; and cancer; inflammatory disorder e.g. ulcerative colitis; fibrotic disorder e.g. idiopathic pulmonary fibrosis, scleroderma, cutaneous radiation-induced fibrosis, hepatic fibrosis including schistosomiasis-induced hepatic fibrosis, renal fibrosis. The IMP's may also be used to create a prophylactic vaccine to increase resistance to infection by bacterial or viral pathogens. The immunomodulatory polynucleotide modulates an immune response; or increases interferon-gamma; or interferon-alpha; effectively stimulates cytokines including type I interferons e.g. IFN-alpha and IFN-omega and IFN-gamma, production from human cells; effectively stimulates B cells to proliferate; and activates plasmacytoid dendritic cells to undergo maturation which can result in retardation of plasmacytoid dendritic cell apoptosis in culture. This polynucleotide sequence represents an immunomodulatory polynucleotide of the invention.
 SQ Sequence 21 BP; 5 A; 4 C; 6 G; 6 T; 0 U; 0 Other;
 Query Match 100.0%; Score 21; DB 13; Length 21;
 Best Local Similarity 100.0%; Pred. No. 0.37;
 Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 TCGTCGAACGTTTCGAGATGAT 21
 DB 1 TCGTCGAACGTTTCGAGATGAT 21

polynucleotide. The (TCG)y is separated from the 5' end of the
palindromic sequence by 0 - 2 bases. The palindromic sequence includes
all or part of the (TCG)y sequence, where y= 1 or 2. The immunomodulatory
polynucleotides have the following activities: antimicrobial,
antiallergic, antiasthmatic, dermatological, antiinflammatory,
ophthalmological, immunosuppressive, antibacterial, vasotropic,
antiparasitic, virucide, hepatotropic, anti-HIV, cytostatic, antiulcer,
and nephrotropic. The immunomodulatory polynucleotides can be used for
ameliorating a symptom of an infectious disease and IgE-related disorder.
The IMP's may also be used for the treatment of a disorder associated
with a T helper (TH)2-type immune response (e.g. allergies, allergy-
induced asthma or atopic dermatitis), individuals receiving vaccines such
as therapeutic vaccines (e.g. vaccines comprising an allergy epitope, a
mycobacterial epitope or a tumour associated epitope) or prophylactic
vaccines. The IMP's can also be used for the treatment of e.g. food
allergies, rhinitis, atopic dermatitis, conjunctivitis, urticaria, shock,
Hymenoptera sting allergies and drug allergies and parasitic infections;
viral disease e.g. Hepatitis B, Hepatitis C, Influenza, Acquired
immunodeficiency syndrome (AIDS) and Herpes zoster; and cancer;
inflammatory disorder e.g. ulcerative colitis; fibrotic disorder e.g.
idiopathic pulmonary fibrosis, scleroderma, cutaneous radiation-induced
fibrosis, hepatic fibrosis including schistosomiasis-induced hepatic
fibrosis, renal fibrosis. The IMP's may also be used to create a
prophylactic vaccine to increase resistance to infection by bacterial or
viral pathogens. The immunomodulatory polynucleotide modulates an immune
response; or increases interferon-gamma; or interferon-alpha; effectively
stimulates cytokines including type I interferons e.g. IFN-alpha and IFN-
omega and IFN-gamma, production from human cells; effectively stimulates
B cells to proliferate; and activates plasmacytoid dendritic cells to
undergo maturation which can result in retardation of plasmacytoid
dendritic cell apoptosis in culture. This polynucleotide sequence
represents an immunomodulatory polynucleotide of the invention.

SQ Sequence 21 BP; 5 A; 4 C; 6 G; 6 T; 0 U; 0 Other;

Query Match 100.0%; Score 21; DB 13; Length 21;
Best Local Similarity 100.0%; Pred. No. 0.37;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCGTCGAACGTTTCGAGATGAT 21
| | | | | | | | | | | | | | | | | | | | |
Db 1 TCGTCGAACGTTTCGAGATGAT 21

Search completed: March 30, 2005, 14:03:31
Job time : 427 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: March 30, 2005, 10:06:13 ; Search time 75 Seconds
(without alignments)
458.157 Million cell updates/sec

Title: US-10-033-243-132

Perfect score: 21

Sequence: 1 tcgtcgacgttcgagatgat 21

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents NA:*

- 1: /cgm2_6/ptodata/1/ina/5A COMB.seq:*
- 2: /cgm2_6/ptodata/1/ina/5B COMB.seq:*
- 3: /cgm2_6/ptodata/1/ina/6A COMB.seq:*
- 4: /cgm2_6/ptodata/1/ina/6B COMB.seq:*
- 5: /cgm2_6/ptodata/1/ina/BCTUS COMB.seq:*
- 6: /cgm2_6/ptodata/1/ina/backfiles.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
C 1	16.4	78.1	23	4	US-09-296-477-4
C 2	16.2	77.1	3135	4	US-09-107-532A-1575
C 3	15.4	73.3	816	3	US-08-776-251-10
C 4	15.4	73.3	816	3	US-08-776-251-10
C 5	15.4	73.3	1900	4	US-09-555-000-1
C 6	15.4	73.3	100990	4	US-09-409-800B-2
C 7	15.2	72.4	342	4	US-09-134-000C-2551
C 8	15.2	72.4	1938	4	US-09-710-279-2983
C 9	15.2	72.4	3097	4	US-09-710-279-3781
C 10	15.2	72.4	3188	4	US-09-710-279-3837
C 11	15.2	72.4	3594	4	US-09-710-279-3803
C 12	15.2	72.4	3641	4	US-09-710-279-3851
C 13	15.2	72.4	3707	4	US-09-949-016-3912
C 14	15.2	72.4	4506	4	US-09-710-279-2849
C 15	15.2	72.4	4590	3	US-09-134-001C-1108
C 16	15	71.4	22	4	US-09-235-742-19
C 17	15	71.4	22	4	US-09-347-343-32
C 18	15	71.4	22	4	US-09-820-484-1
C 19	15	71.4	22	4	US-09-820-484-3
C 20	15	71.4	22	4	US-09-774-403A-1
C 21	15	71.4	22	4	US-09-296-477-1
C 22	15	71.4	22	4	US-09-296-477-2
C 23	15	71.4	22	4	US-09-296-477-5
C 24	15	71.4	22	4	US-09-308-036A-1
C 25	15	71.4	22	4	US-09-791-500-1
C 26	15	71.4	22	4	US-09-565-906-2
C 27	14.8	70.5	813	4	US-09-107-532A-1566

28	14.8	70.5	1069	4	US-09-374-174B-1	Sequence 1, Appli
29	14.8	70.5	1497	4	US-09-252-991A-2256	Sequence 2256, Ap
C 30	14.8	70.5	1950	4	US-09-252-991A-2425	Sequence 2425, Ap
31	14.8	70.5	2799	1	US-08-446-794A-5	Sequence 5, Appli
32	14.8	70.5	2799	1	US-08-750-007-4	Sequence 4, Appli
33	14.6	69.5	424	4	US-09-621-976-12664	Sequence 13664, A
34	14.6	69.5	3468	3	US-09-221-017B-893	Sequence 893, App
35	14.6	69.5	144362	4	US-09-949-016-16066	Sequence 16066, A
C 36	14.4	68.6	77	1	US-08-399-412A-58	Sequence 58, Appl
C 37	14.4	68.6	209	4	US-09-270-767-9743	Sequence 9743, Ap
C 38	14.4	68.6	209	4	US-09-270-767-25025	Sequence 25025, A
39	14.4	68.6	601	4	US-09-949-016-142803	Sequence 142803,
40	14.4	68.6	1737	4	US-09-470-667-3	Sequence 3, Appli
41	14.4	68.6	1740	4	US-09-470-667-1	Sequence 1, Appli
42	14.4	68.6	1740	4	US-09-470-667-4	Sequence 4, Appli
43	14.4	68.6	80411	4	US-09-949-016-15777	Sequence 15777, A
44	14.2	67.6	77	1	US-08-447-169A-36	Sequence 36, Appl
45	14.2	67.6	77	2	US-08-233-012C-36	Sequence 36, Appl

ALIGNMENTS

RESULT 1
US-09-296-477-4/c
; Sequence 4, Application US/09296477A
; Patent No. 6589940
; GENERAL INFORMATION:
; APPLICANT: RAZ, E.
; APPLICANT: SCHWARTZ, D.
; APPLICANT: ROMAN, M.
; APPLICANT: DIANA, D.
; TITLE OF INVENTION: IMMUNOSTIMULATORY OLIGONUCLEOTIDES,
; TITLE OF INVENTION: COMPOSITIONS THEREOF AND METHODS OF USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: 37782000420
; CURRENT APPLICATION NUMBER: US/09/296,477A
; CURRENT FILING DATE: 1999-04-22
; EARLIER APPLICATION NUMBER: 09/092,329
; EARLIER FILING DATE: 1998-06-05
; EARLIER APPLICATION NUMBER: 60/048,793
; EARLIER FILING DATE: 1997-06-06
; NUMBER OF SEQ ID NOS: 21
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 4
; LENGTH: 23
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic construct
US-09-296-477-4

Query Match 78.1%; Score 16.4; DB 4; Length 23;
Best Local Similarity 94.4%; Pred. No. 17;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 3 GTCGAACGTTTCGAGATGA 20
|||
Db 18 GTCGAACGTTTCGAGATGA 1

RESULT 2
US-09-107-532A-1575/c
; Sequence 1575, Application US/09107532A
; Patent No. 6583275
; GENERAL INFORMATION:
; APPLICANT: Lynn A Doucette-Stamm and David Bush
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
; ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 7310
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: GENOME THERAPEUTICS CORPORATION
; STREET: 100 Beaver Street

```

; CITY: Waltham
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02354
;
; COMPUTER READABLE FORM:
; MEDIUM TYPE: CD-ROM ISO9660
; COMPUTER: PC
; OPERATING SYSTEM: <Unknown>
; SOFTWARE: ASCII
;
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/107,532A
; FILING DATE: 30-Jun-1998
;
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/085,598
; FILING DATE: 14 May 1998
; APPLICATION NUMBER: 60/051571
; FILING DATE: July 2, 1997
;
; ATTORNEY/AGENT INFORMATION:
; NAME: Ariniello, Pamela Deneke
; REGISTRATION NUMBER: 40,489
; REFERENCE/DOCKET NUMBER: GTC-012
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (781)893-5007
; TELEFAX: (781)893-8277
;
; INFORMATION FOR SEQ ID NO: 1575:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3135 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: circular
; MOLECULE TYPE: DNA (genomic)
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
;
; ORIGINAL SOURCE:
; ORGANISM: Enterococcus faecium
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (8) LOCATION 1...3135
; SEQUENCE DESCRIPTION: SEQ ID NO: 1575:
US-09-107-532A-1575

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Query Match 77.1%; Score 16.2; DB 4; Length 3135;
Best Local Similarity 85.7%; Pred. No. 42;
Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

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Qy 1 TCGTGAACGTTTCGAGATGAT 21
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Db 2725 TCGTTAAACGTTGGAGATGAT 2705

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RESULT 3
US-08-776-251-10
; Sequence 10, Application US/08776251
; Patent No. 6025340
;
; GENERAL INFORMATION:
; APPLICANT: Springer, Caroline J
; APPLICANT: Marais, Richard
; TITLE OF INVENTION: Surface expression of enzyme in gene directed prodrgng therapy
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon & Vanderhye
; STREET: 1100 No. 6025340th Glebe Road, 8th Floor
; CITY: Arlington
; STATE: Virginia
; COUNTRY: USA
;
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/776,251
; FILING DATE: 31-JAN-1997

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; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/GB95/01782
; FILING DATE: 27-JUL-1995
;
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: GB 9415167.7
; FILING DATE: 27-JUL-1994
;
; ATTORNEY/AGENT INFORMATION:
; NAME: Arthur R. Crawford
; REGISTRATION NUMBER: 25,327
; REFERENCE/DOCKET NUMBER: 620-20
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 816 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
US-08-776-251-10

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Query Match 73.3%; Score 15.4; DB 3; Length 816;
Best Local Similarity 94.1%; Pred. No. 95;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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Qy 4 TCGAACGTTTCGAGATGA 20
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Db 619 TCGAACGTTTCGAGACGA 635

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```

RESULT 4
US-08-776-251-10/c
; Sequence 10, Application US/08776251
; Patent No. 6025340
;
; GENERAL INFORMATION:
; APPLICANT: Springer, Caroline J
; APPLICANT: Marais, Richard
; TITLE OF INVENTION: Surface expression of enzyme in gene directed prodrgng therapy
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon & Vanderhye
; STREET: 1100 No. 6025340th Glebe Road, 8th Floor
; CITY: Arlington
; STATE: Virginia
; COUNTRY: USA
;
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/776,251
; FILING DATE: 31-JAN-1997
;
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/GB95/01782
; FILING DATE: 27-JUL-1995
;
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: GB 9415167.7
; FILING DATE: 27-JUL-1994
;
; ATTORNEY/AGENT INFORMATION:
; NAME: Arthur R. Crawford
; REGISTRATION NUMBER: 25,327
; REFERENCE/DOCKET NUMBER: 620-20
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 816 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
US-08-776-251-10

```

```

Query Match 73.3%; Score 15.4; DB 3; Length 816;
Best Local Similarity 94.1%; Pred. No. 95;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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Qy 4 TCGAACGTTTCGAGATGA 20
Db 630 TCGAACGTTTCGAGACGA 614

RESULT 5
US-09-555-000-1/c
; Sequence 1, Application US/09555000
; Patent No. 6489108
; GENERAL INFORMATION:
; APPLICANT: Genencor International, Inc.
; TITLE OF INVENTION: Proteases from Gram Positive Organisms
; FILE REFERENCE: GC390-PCT
; CURRENT APPLICATION NUMBER: US/09/555,000
; CURRENT FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: PCT/US98/26971
; PRIOR FILING DATE: 1998-12-17
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1
; LENGTH: 1900
; TYPE: DNA
; ORGANISM: Bacillus subtilis
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (134)...(1774)
US-09-555-000-1

Query Match 73.3%; Score 15.4; DB 4; Length 1900;
Best Local Similarity 94.1%; Pred. No. 1.1e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 5 CGAACGTTTCGAGATGAT 21
Db 1119 CGAACGTTTCGACATGAT 1103

RESULT 6
US-09-409-800B-2
; Sequence 2, Application US/09409800B
; Patent No. 6706522
; GENERAL INFORMATION:
; APPLICANT: Blattner, Frederick R.
; APPLICANT: Burland, Valerie
; APPLICANT: Rose, Debra J.
; APPLICANT: Mayhew, George F.
; APPLICANT: Perna, Nicole
; APPLICANT: Perry, Robert D.
; APPLICANT: Straley, Susan C.
; APPLICANT: Fetherston, Jacqueline D.
; APPLICANT: Lindler, Luther E.
; APPLICANT: Plano, Gregory V.
; TITLE OF INVENTION: Plasmid DNA From Yersinia Pestis
; FILE REFERENCE: 960296.95939
; CURRENT APPLICATION NUMBER: US/09/409,800B
; CURRENT FILING DATE: 1999-09-30
; NUMBER OF SEQ ID NOS: 3
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
; LENGTH: 100990
; TYPE: DNA
; ORGANISM: Yersinia pestis
US-09-409-800B-2

Query Match 73.3%; Score 15.4; DB 4; Length 100990;
Best Local Similarity 94.1%; Pred. No. 1.8e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 4 TCGAACGTTTCGAGATGA 20
Db 91915 TCGACCGTTTCGAGATGA 91931

RESULT 7
US-09-134-000C-2551
; Sequence 2551, Application US/09134000C
; Patent No. 6617156
; GENERAL INFORMATION:
; APPLICANT: Lynn Doucette-Stamm et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
; TITLE OF INVENTION: ENTEROCOCCUS FAECALIS FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 032796-032
; CURRENT APPLICATION NUMBER: US/09/134,000C
; CURRENT FILING DATE: 1998-08-13
; PRIOR APPLICATION NUMBER: US 60/055,778
; PRIOR FILING DATE: 1997-08-15
; NUMBER OF SEQ ID NOS: 6812
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2551
; LENGTH: 342
; TYPE: DNA
; ORGANISM: Enterococcus faecalis
US-09-134-000C-2551

Query Match 72.4%; Score 15.2; DB 4; Length 342;
Best Local Similarity 85.0%; Pred. No. 1.1e+02;
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 TCGTCGAACGTTTCGAGATGA 20
Db 31 TCGTCGAACGTTTCCTGATGA 50

RESULT 8
US-09-710-279-2983/c
; Sequence 2983, Application US/09710279
; Patent No. 6703492
; GENERAL INFORMATION:
; APPLICANT: KIMMERLY, WILLIAM JOHN
; TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
; FILE REFERENCE: PU3480US
; CURRENT APPLICATION NUMBER: US/09/710,279
; CURRENT FILING DATE: 2000-11-09
; PRIOR APPLICATION NUMBER: 60/164,258
; PRIOR FILING DATE: 1999-11-09
; NUMBER OF SEQ ID NOS: 4472
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2983
; LENGTH: 1938
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: synthetic
; OTHER INFORMATION: nucleic acid sequence
US-09-710-279-2983

Query Match 72.4%; Score 15.2; DB 4; Length 1938;
Best Local Similarity 85.0%; Pred. No. 1.4e+02;
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 2 CGTCGAACGTTTCGAGATGAT 21
Db 945 CGTCGAACGTTGAAGAAGAT 926

RESULT 9
US-09-710-279-3781/c
; Sequence 3781, Application US/09710279
; Patent No. 6703492
; GENERAL INFORMATION:
; APPLICANT: KIMMERLY, WILLIAM JOHN
; TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
; FILE REFERENCE: PU3480US
; CURRENT APPLICATION NUMBER: US/09/710,279
; CURRENT FILING DATE: 2000-11-09
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; PRIOR APPLICATION NUMBER: 60/164,258
; PRIOR FILING DATE: 1999-11-09
; NUMBER OF SEQ ID NOS: 4472
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3781
; LENGTH: 3097
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: synthetic
; OTHER INFORMATION: nucleic acid sequence
US-09-710-279-3781

Query Match 72.4%; Score 15.2; DB 4; Length 3097;
Best Local Similarity 85.0%; Pred. No. 1.5e+02;
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 2 CGTCGAACGTTTCGAGATGAT 21
|||||
Db 111 CGTCGAACGTTTCGAGATGAT 92

RESULT 10

US-09-710-279-3837
; Sequence 3837, Application US/09710279
; Patent No. 6703492
; GENERAL INFORMATION:
; APPLICANT: KIMMERLY, WILLIAM JOHN
; TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
; FILE REFERENCE: PUS480US
; CURRENT APPLICATION NUMBER: US/09/710,279
; CURRENT FILING DATE: 2000-11-09
; PRIOR APPLICATION NUMBER: 60/164,258
; PRIOR FILING DATE: 1999-11-09
; NUMBER OF SEQ ID NOS: 4472
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3837
; LENGTH: 3188
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: synthetic
; OTHER INFORMATION: nucleic acid sequence
US-09-710-279-3837

Query Match 72.4%; Score 15.2; DB 4; Length 3188;
Best Local Similarity 85.0%; Pred. No. 1.5e+02;
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 2 CGTCGAACGTTTCGAGATGAT 21
|||||
Db 292 CGTCGAACGTTTCGAGATGAT 311

RESULT 11

US-09-710-279-3803
; Sequence 3803, Application US/09710279
; Patent No. 6703492
; GENERAL INFORMATION:
; APPLICANT: KIMMERLY, WILLIAM JOHN
; TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
; FILE REFERENCE: PUS480US
; CURRENT APPLICATION NUMBER: US/09/710,279
; CURRENT FILING DATE: 2000-11-09
; PRIOR APPLICATION NUMBER: 60/164,258
; PRIOR FILING DATE: 1999-11-09
; NUMBER OF SEQ ID NOS: 4472
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3803
; LENGTH: 3594
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:

; OTHER INFORMATION: Description of Artificial Sequence: synthetic
; OTHER INFORMATION: nucleic acid sequence
US-09-710-279-3803

Query Match 72.4%; Score 15.2; DB 4; Length 3594;
Best Local Similarity 85.0%; Pred. No. 1.5e+02;
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 2 CGTCGAACGTTTCGAGATGAT 21
|||||
Db 2100 CGTCGAACGTTTCGAGATGAT 2119

RESULT 12

US-09-710-279-3851/c
; Sequence 3851, Application US/09710279
; Patent No. 6703492
; GENERAL INFORMATION:
; APPLICANT: KIMMERLY, WILLIAM JOHN
; TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
; FILE REFERENCE: PUS480US
; CURRENT APPLICATION NUMBER: US/09/710,279
; CURRENT FILING DATE: 2000-11-09
; PRIOR APPLICATION NUMBER: 60/164,258
; PRIOR FILING DATE: 1999-11-09
; NUMBER OF SEQ ID NOS: 4472
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3851
; LENGTH: 3641
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: synthetic
; OTHER INFORMATION: nucleic acid sequence
US-09-710-279-3851

Query Match 72.4%; Score 15.2; DB 4; Length 3641;
Best Local Similarity 85.0%; Pred. No. 1.5e+02;
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 2 CGTCGAACGTTTCGAGATGAT 21
|||||
Db 1563 CGTCGAACGTTTCGAGATGAT 1544

RESULT 13

US-09-949-016-3912/c
; Sequence 3912, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3912
; LENGTH: 3707
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-3912

Query Match 72.4%; Score 15.2; DB 4; Length 3707;
Best Local Similarity 85.0%; Pred. No. 1.5e+02;
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Search completed: March 30, 2005, 10:48:06
Job time : 76 secs

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: March 30, 2005, 10:45:07 ; Search time 3117 Seconds
(without alignments)
256.448 Million cell updates/sec

Title: US-10-033-243-132

Perfect score: 21

Sequence: 1 tcgtcgacgttcgagatgat 21

Scoring table: IDENTITY NUC

Gapop 10'0 , Gapext 1.0

Searched: 34239544 seqs, 19032134700 residues

Total number of hits satisfying chosen parameters: 68479088

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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1: gb_est1.*

2: gb_est2.*

3: gb_hic.*

4: gb_est3.*

5: gb_est4.*

6: gb_est5.*

7: gb_est6.*

8: gb_gss1.*

9: gb_gss2.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	18.4	87.6	802	9	CNS04SNV
2	17.8	84.8	302	6	CD182992
3	17.8	84.8	441	6	CD156376
4	17.8	84.8	586	6	CD124255
5	17.8	84.8	785	7	CF434519
6	16.8	80.0	221	6	CD572389
7	16.8	80.0	382	7	CV043005
8	16.8	80.0	461	6	CA707068
9	16.8	80.0	587	6	CA827269
10	16.8	80.0	595	8	BH387860
11	16.8	80.0	1410	2	B5052250
12	16.4	78.1	303	2	AW710594
13	16.4	78.1	424	5	BW170465
14	16.4	78.1	439	4	B1515898
15	16.4	78.1	445	5	BW300285
16	16.4	78.1	457	5	BP018564
17	16.4	78.1	504	8	B29433
18	16.4	78.1	511	4	B1514876
19	16.4	78.1	511	4	B1514893
20	16.4	78.1	570	5	BP539000
21	16.4	78.1	635	5	BW118728
22	16.4	78.1	650	1	AV902415
23	16.4	78.1	662	5	BW174317
24	16.4	78.1	663	5	BW171245

25	16.4	78.1	666	5	BW414321
26	16.4	78.1	707	5	BW297679
27	16.4	78.1	709	5	BW303599
28	16.4	78.1	711	5	BW461330
29	16.4	78.1	725	5	BW174467
30	16.4	78.1	727	5	BW437262
31	16.4	78.1	767	5	BW502366
32	16.4	78.1	914	9	CNS04AOO
33	16.4	78.1	941	7	CO013173
34	16.4	78.1	1197	9	AG427158
35	16.4	78.1	1660	9	AG430921
36	16.2	77.1	166	6	CA196886
37	16.2	77.1	273	4	BG931701
38	16.2	77.1	314	6	CD190559
39	16.2	77.1	315	6	CD183371
40	16.2	77.1	328	4	B1075646
41	16.2	77.1	329	6	CD177754
42	16.2	77.1	342	6	CD092357
43	16.2	77.1	352	7	CN141822
44	16.2	77.1	370	9	CL728886
45	16.2	77.1	371	7	CN135967

ALIGNMENTS

RESULT 1	CNS04SNV	802 bp	DNA	linear	GSS 01-SEP-2000
LOCUS	Tetraodon nigroviridis genome survey sequence 17 end of clone				
DEFINITION	007J10 of library H from Tetraodon nigroviridis, genomic survey sequence.				
ACCESSION	AL305428.1				
VERSION	GI:8197678				
KEYWORDS	GSS; genome survey sequence.				
SOURCE	Tetraodon nigroviridis				
ORGANISM	Tetraodon nigroviridis				
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei; Acanthomorpha; Acanthopterygii; Percormorpha; Tetraodontiformes; Tetraodontoidea; Tetraodontidae; Tetraodon.				
AUTHORS	Reest Crollius,H., Jaillon,O., Dasilva,C., Bouneau,L., Fisher,C., Bernot,A., Fizames,C., Wincker,P., Brottier,P., Brottier,F., Saurin,W. and Weissbach,J.				
TITLE	Estimate of human gene number provided by genome-wide analysis using Tetraodon nigroviridis DNA sequence				
JOURNAL	Nat. Genet. 25 (2), 235-238 (2000)				
MEDLINE	20296633				
PUBMED	10835645				
REFERENCE	2				
AUTHORS	Reest Crollius,H., Jaillon,O., Dasilva,C., Ozouf-Costaz,C., Fizames,C., Fischer,C., Bouneau,L., Billault,A., Quefiet,F., Saurin,W., Bernot,A. and Weissbach,J.				
TITLE	Characterization and repeat analysis of the compact genome of the freshwater pufferfish Tetraodon nigroviridis				
JOURNAL	Genome Res. 10 (7), 939-949 (2000)				
MEDLINE	20359837				
PUBMED	10899143				
REFERENCE	3 (bases 1 to 802)				
AUTHORS	Genoscope.				
TITLE	Direct Submission				
JOURNAL	Submitted (12-APR-2000) Genoscope - Centre National de Sequencage : BP 191 91006 EVRY cedex - FRANCE (E-mail : secref@genoscope.cns.fr				
COMMENT	- Web : www.genoscope.cns.fr) This sequence is a single read and was generated as part of a large scale clone-end sequencing project of the Tetraodon nigroviridis genome. For more information, please take a look at http://www.genoscope.cns.fr/Tetraodon.				
FEATURES	Location/Qualifiers				
source	1..802				
	/organism="Tetraodon nigroviridis"				
	/mol_type="genomic DNA"				

/db_xref="taxon:99883"
 /clone="007J10"
 /clone_lib="H"
 /note="Genoscope sequence ID : COBH007D805XD1-end : T7"

ORIGIN

Query Match 87.6%; Score 18.4; DB 9; Length 802;
 Best Local Similarity 95.0%; Pred. No. 30;
 Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2 CGTCGAACGTTTCGAGATGAT 21

Db 623 CGTCGAACGTTTCGAGATGAT 642

RESULT 2

CD182992

LOCUS

DEFINITION MS1-0037T-D120-A09-U.G MS1-0037 Schistosoma mansoni cDNA clone EST 14-SEP-2003

ACCESSION

CD182992

VERSION

CD182992.1 GI:34713214

KEYWORDS

EST.

SOURCE

Schistosoma mansoni

ORGANISM

Schistosoma mansoni

Eukaryota; Metazoa; Platyhelminthes; Trematoda; Digenea;

Strigeidida; Schistosomatidae; Schistosoma.

REFERENCE

1 (bases 1 to 302)

Verjovski-Almeida, S., DeMarco, R., Martins, E.A.L., Guimaraes, P.E.M.,

Ojopi, E.P.B., Paquola, A.C.M., Piazza, J.P., Nishiyama, M.Y. Jr.,

Kitajima, J.P., Adamson, R.E., Ashton, P.D., Bonaldo, M.F.,

Coulson, P.S., Dillon, G.P., Farias, L.P., Gregorio, S.P., Ho, P.L.,

Leite, R.A., Malaquias, L.C.C., Marques, R.C.P., Miyasato, P.A.,

Nascimento, A.L.T.O., Ohlweiler, F.P., Reis, E.M., Ribeiro, M.A.,

Sa, R.G., Stukart, G.C., Soares, M.B., Gargioni, C., Kawano, T.,

Rodrigues, V., Madeira, A.M.B.N., Wilson, R.A., Menck, C.F.M.,

Setubal, J.C., Leite, L.C.C. and Dias-Neto, E.

Transcriptome analysis of the acelomate human parasite Schistosoma

mansoni

Nat. Genet. 35 (2), 148-157 (2003)

22879926

12973350

PUBMED

COMMENT

Contact: Dr. Sergio Verjovski-Almeida

Departamento de Bioquímica

Instituto de Química - Universidade de Sao Paulo

Av. Prof. Lineu Prestes 748 sala 1200, 05508-900 Sao Paulo - SP,

Brasil

Tel: +55-11-3091-2173

Fax: +55-11-3091-2186

Email: verj@iq.usp.br

This sequence was derived from the FAPESP Schistosoma mansoni EST

Genome Project. All sequences in the project were assembled and

annotated. This entry and all the assembled sequences can be seen

in the following URL http://bioinfo.iq.usp.br/schisto/

Plate: MS1-0037T-D120 row: 9 column: A.

Location/Qualifiers

1..302

/organism="Schistosoma mansoni"

/mol_type="mRNA"

/db_xref="taxon:6183"

/clone="MS1-0037T-D120-A09.G"

/sex="mixed pool"

/dev_stages="schistosomulum"

/lab_host="in vitro culture"

/clone_lib="MS1-0037"

/note="Vector: pGEM T-easy"

ORIGIN

Query Match

Best Local Similarity 84.8%; Score 17.8; DB 6; Length 302;

Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 TCGTCGAACGTTTCGAGATGAT 21

Db 19 TCGTCGAACGTTTCGATGAT 39

RESULT 3

CD156376/c

LOCUS

DEFINITION ML1-0046T-M209-C11-U.G ML1-0046 Schistosoma mansoni cDNA clone EST 14-SEP-2003

ACCESSION

CD156376

VERSION

CD156376.1 GI:34693161

KEYWORDS

EST.

SOURCE

Schistosoma mansoni

Schistosoma mansoni

Eukaryota; Metazoa; Platyhelminthes; Trematoda; Digenea;

Strigeidida; Schistosomatidae; Schistosoma.

1 (bases 1 to 441)

Verjovski-Almeida, S., DeMarco, R., Martins, E.A.L., Guimaraes, P.E.M.,

Ojopi, E.P.B., Paquola, A.C.M., Piazza, J.P., Nishiyama, M.Y. Jr.,

Kitajima, J.P., Adamson, R.E., Ashton, P.D., Bonaldo, M.F.,

Coulson, P.S., Dillon, G.P., Farias, L.P., Gregorio, S.P., Ho, P.L.,

Leite, R.A., Malaquias, L.C.C., Marques, R.C.P., Miyasato, P.A.,

Nascimento, A.L.T.O., Ohlweiler, F.P., Reis, E.M., Ribeiro, M.A.,

Sa, R.G., Stukart, G.C., Soares, M.B., Gargioni, C., Kawano, T.,

Rodrigues, V., Madeira, A.M.B.N., Wilson, R.A., Menck, C.F.M.,

Setubal, J.C., Leite, L.C.C. and Dias-Neto, E.

Transcriptome analysis of the acelomate human parasite Schistosoma

mansoni

Nat. Genet. 35 (2), 148-157 (2003)

22879926

12973350

PUBMED

COMMENT

Contact: Dr. Sergio Verjovski-Almeida

Departamento de Bioquímica

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Av. Prof. Lineu Prestes 748 sala 1200, 05508-900 Sao Paulo - SP,

Brasil

Tel: +55-11-3091-2173

Fax: +55-11-3091-2186

Email: verj@iq.usp.br

This sequence was derived from the FAPESP Schistosoma mansoni EST

Genome Project. All sequences in the project were assembled and

annotated. This entry and all the assembled sequences can be seen

in the following URL http://bioinfo.iq.usp.br/schisto/

Plate: ML1-0046T-M209 row: 11 column: C.

Location/Qualifiers

1..441

/organism="Schistosoma mansoni"

/mol_type="mRNA"

/db_xref="taxon:6183"

/clone="ML1-0046T-M209-C11.G"

/sex="mixed pool"

/dev_stages="miracidium"

/clone_lib="ML1-0046"

/note="Vector: pGEM T-easy"

ORIGIN

Query Match

Best Local Similarity 84.8%; Score 17.8; DB 6; Length 441;

Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 TCGTCGAACGTTTCGAGATGAT 21

Db 376 TCGTCGAACGTTTCGATGAT 356

RESULT 4

CD124255

LOCUS

DEFINITION ME1-0086G-A185-H02-U.B ME1-0086 Schistosoma mansoni cDNA clone EST 14-SEP-2003

ACCESSION

CD124255

VERSION

CD124255.1 GI:34662288

KEYWORDS

EST.

SOURCE Schistosoma mansoni
ORGANISM Schistosoma mansoni
Eukaryota; Metazoa; Platyhelminthes; Trematoda; Digenea; Strigoidida; Schistosomatoidea; Schistosomatidae; Schistosoma.

REFERENCE 1 (bases 1 to 586)
AUTHORS Verjovsky-Almeida, S., DeMarco, R., Martins, E.A.L., Guimaraes, P.E.M., Ojopi, E.P.B., Paquola, A.C.M., Piazza, J.P., Nishiyama, M.Y. Jr., Kitajima, J.P., Adamson, R.E., Ashton, P.D., Bonaldi, M.F., Coulson, P.S., Dillon, G.P., Farias, L.P., Gregorio, S.P., Ho, P.L., Leite, R.A., Malaquias, L.C.C., Marques, R.C.P., Miyasato, P.A., Nascimento, A.L.T.O., Ohlweiler, F.P., Reis, B.M., Ribeiro, M.A., Sa, R.G., Stukart, G.C., Soares, M.B., Gargioni, C., Kawano, T., Rodrigues, V., Madeira, A.M.B.N., Wilson, R.A., Menck, C.F.M., Secubal, J.C., Leite, L.C.C. and Dias-Neto, E.

TITLE Transcriptional analysis of the acoelomate human parasite Schistosoma mansoni

JOURNAL Nat. Genet. 35 (2), 148-157 (2003)
MEDLINE 22879926
PUBMED 12973350

COMMENT Contact: Dr. Sergio Verjovsky-Almeida
Departamento de Bioquímica
Instituto de Química - Universidade de São Paulo
Av. Prof. Lineu Prestes 748 sala 1200, 05508-900 São Paulo - SP, Brasil
Tel: +55-11-3091-2173
Fax: +55-11-3091-2186
Email: verjoe@iq.usp.br

This sequence was derived from the PAPESP Schistosoma mansoni EST Genome Project. All sequences in the project were assembled and annotated. This entry and all the assembled sequences can be seen in the following URL <http://bioinfo.iq.usp.br/schisto/>

Plate: ME1-0086G-A185 row: 2 column: H.

FEATURES
source
Location/Qualifiers
1..586
/organism="Schistosoma mansoni"
/mol_type="mRNA"
/db_xref="taxon:6183"
/clone="ME1-0086G-A185-H02.B"
/sex="mixed pool"
/dev_stage="egg"
/lab_hosts="Mus musculus"
/clone_lib="ME1-0086"
/note="Vector: pGEM T-easy"

ORIGIN
Query Match 84.8%; Score 17.8; DB 6; Length 586;
Best Local Similarity 90.5%; Pred. No. 63;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 TCGTGGAACGTTTCGAGATGAT 21
Db 373 TCGTGGAACTTCGATGAT 393

RESULT 5
CF434519/c
LOCUS CF434519
DEFINITION EST670864 normalized cDNA library of onion Allium cepa cDNA clone
ACCA82, mRNA sequence.
ACCESSION CF434519
VERSION CF434519.1 GI:34457209
KEYWORDS EST.
SOURCE Allium cepa (onion)
ORGANISM Allium cepa
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; Liliopsida; Asparagales; Alliaceae; Allium.

REFERENCE 1 (bases 1 to 785)
AUTHORS Havery, M.J., Cheung, F., Van Aken, S., Utterback, T. and Town, C.D.
TITLE Expressed Sequence Tags from a normalized library of mixed onion tissues (Allium cepa)
JOURNAL Unpublished (2003)
COMMENT Contact: Havery MJ

Department of Horticulture
USDA-ARS and University of Wisconsin
1575 Linden Drive, Madison, WI 53706, USA
Tel: 608-262-1830
Fax: 608-262-4743
Email: mjhavey@facstaff.wisc.edu
TIGR sequence name ACAAA82TR. For more information:
<http://haveylab.hort.wisc.edu>
Seq primer: CAG GAA ACA GCT ATG ACC.

FEATURES
source
Location/Qualifiers
1..785
/organism="Allium cepa"
/mol_type="mRNA"
/cultivar="Red Creole (bulbs), unknown (callus), Ebano & Texas Legend (roots)"
/db_xref="taxon:4679"
/clone="ACAA82"
/tissue_type="Callus, roots, and young bulbe"
/clone_lib="normalized cDNA library of onion"
/note="vector: pCMVSPORT6.1-ccdb (Invitrogen); Site 1: EcoRV (5'); Site 2: NotI (3'); Equal molar amounts of mRNA from callus, roots, and young bulbs were combined to synthesize the library. Normalization to enrich for low-copy transcripts was performed by proprietary techniques of Invitrogen."

ORIGIN
Query Match 84.8%; Score 17.8; DB 7; Length 785;
Best Local Similarity 90.5%; Pred. No. 65;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 TCGTGGAACTTCGAGATGAT 21
Db 65 TTGTGGATCGTTCGATGAT 45

RESULT 6
CD572389
LOCUS CD572389
DEFINITION PBL 20 H02 Porcine Brain Library Sus scrofa cDNA clone PBL 5', mRNA sequence.
ACCESSION CD572389
VERSION CD572389.1 GI:31663456
KEYWORDS EST.
SOURCE Sus scrofa (pig)
ORGANISM Sus scrofa
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Cetartiodactyla; Suina; Suidae; Sus.
REFERENCE 1 (bases 1 to 221)
AUTHORS Nobis, W., Ren, X., Suchyta, S.P., Suchyta, T.R., Zanella, A.J. and Coussens, P.M.
TITLE Development of a porcine brain cDNA library, EST database and microarray resource
JOURNAL Physiol. Genomics 16 (1), 153-159 (2003)
COMMENT Contact: Paul Coussens
Michigan State University
1205H Anthony Hall, East Lansing, MI 48824, USA
Email: coussens@msu.edu
Seq primer: M13

FEATURES
source
Location/Qualifiers
1..221
/organism="Sus scrofa"
/mol_type="mRNA"
/db_xref="taxon:9823"
/clone="PBL"
/sex="male and female"
/tissue_type="Brain and central nervous system"
/dev_stage="fetal, 10-day, 21-day, 5-week, mature boar, post-pubertal gilt, lactating sow"
/clone_lib="Porcine Brain Library"
/note="Porcine (Pig) brain library includes pre-frontal cortex, frontal cortex, hippocampus, hypothalamus, parietal cortex, amygdala, cerebellum, spinal cord, eye,

```

ORIGIN
Query Match      80.0%; Score 16.8; DB 6; Length 221;
Best Local Similarity 90.0%; Pred. No. 2e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Oy  2  CGTCGAACGTTTCGAGATGAT 21
      ||||| ||||| ||||| |||||
Db  33  CGTCGAACGTTTCGAGATGAT 52

RESULT 7
CV043005/c
LOCUS      382 bp      mRNA      linear      EST 23-AUG-2004
DEFINITION dba13c12.y1 Drosophila simulans testis pSport1 library Drosophila
simulans cDNA 5', similar to TR:Q9VBF1 Q9VBF1 CG5443 PROTEIN. , ,
mRNA sequence.
ACCESSION  CV043005
VERSION     CV043005.1  GI:51500544
KEYWORDS   EST.
SOURCE     Drosophila simulans
ORGANISM   Drosophila simulans
            Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
            Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
            Ephydroidea; Drosophilidae; Drosophila.
REFERENCE  1 (bases 1 to 382)
AUTHORS   Langley, C., Begun, D., Clifton, S., Pape, D., Marra, M., Hillier, L.,
            Martin, J., Wylie, T., Dante, M., Theising, B., Bowers, Y., Gibbons, M.,
            Ronko, I., Tsagareishvili, R., Ritter, E., Kennedy, S., Waterston, R.
            and Wilson, R.
TITLE     Drosophila simulans genome project
JOURNAL   Unpublished (2004)
COMMENT   Contact: Charles Langley, David Begun
            Drosophila simulans genome project
            Washington University School of Medicine
            4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108, USA
            Tel: 314 286 1800
            Fax: 314 286 1810
            Email: est@watson.wustl.edu
            Library materials provided by: Rob Kulathinal (Harvard University)
            & Willie Swanson (University of Washington) Library constructed by:
            Willie Swanson, University of Washington Library re-arranged by: Rob
            Kulathinal, Harvard University DNA sequencing by: Washington
            University Genome Sequencing Center
Seq primer: -40RP
High quality sequence stop: 345.
Location/Qualifiers
1..382
/organism="Drosophila simulans"
/mol_type="mRNA"
/db_xref="taxon:7240"
/lab_host="E. coli DH5-alpha"
/clone_lib="Drosophila simulans testis pSport1 library"
/notes="Vector: pSPORT (BRL); Site 1: NotI; Site 2: SalI;
1st strand cDNA was primed with a NotI-oligo(dN) primer.
SalI adaptors were ligated following 2nd strand synthesis.
Library not normalized."

ORIGIN
Query Match      80.0%; Score 16.8; DB 7; Length 382;
Best Local Similarity 90.0%; Pred. No. 2.2e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Oy  2  CGTCGAACGTTTCGAGATGAT 21
      ||||| ||||| ||||| |||||
Db  25  CGTCGAACGTCGTGATGAT 6

RESULT 8
CA707068/c
LOCUS      461 bp      mRNA      linear      EST 26-NOV-2002
DEFINITION wdk2c.pk0004.g12 wdk2c Triticum aestivum cDNA clone

ORIGIN
Query Match      80.0%; Score 16.8; DB 6; Length 461;
Best Local Similarity 90.0%; Pred. No. 2.2e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Oy  2  CGTCGAACGTTTCGAGATGAT 21
      ||||| ||||| ||||| |||||
Db  293  CGCGCAACGTTGGAGATGAT 274

RESULT 9
CA827269
LOCUS      587 bp      mRNA      linear      EST 11-DEC-2002
DEFINITION 114012C10.y1 1114 - UniGene IV from Maize Genome Project Zea mays
cDNA, mRNA sequence.
ACCESSION  CA827269
VERSION    CA827269.1  GI:26455686
KEYWORDS   EST.
SOURCE     Zea mays
ORGANISM   Zea mays
            Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
            Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; PACCAD
            clade; Panicoideae; Andropogoneae; Zea.
REFERENCE  1 (bases 1 to 587)
AUTHORS   Walbot, V.
TITLE     Maize ESTs from various cDNA libraries sequenced at Stanford
JOURNAL   Unpublished (1999)
COMMENT   Contact: Walbot V
            Department of Biological Sciences
            Stanford University
            855 California Ave, Palo Alto, CA 94304, USA
            Tel: 650 723 2227
            Fax: 650 725 8221
            Email: walbot@stanford.edu
            Plate: 114012 row: C column: 10.
            Location/Qualifiers
1..587
/organism="Zea mays"

ORIGIN
Query Match      80.0%; Score 16.8; DB 6; Length 461;
Best Local Similarity 90.0%; Pred. No. 2.2e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Oy  2  CGTCGAACGTTTCGAGATGAT 21
      ||||| ||||| ||||| |||||
Db  293  CGCGCAACGTTGGAGATGAT 274

RESULT 9
CA827269
LOCUS      587 bp      mRNA      linear      EST 11-DEC-2002
DEFINITION 114012C10.y1 1114 - UniGene IV from Maize Genome Project Zea mays
cDNA, mRNA sequence.
ACCESSION  CA827269
VERSION    CA827269.1  GI:26455686
KEYWORDS   EST.
SOURCE     Zea mays
ORGANISM   Zea mays
            Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
            Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; PACCAD
            clade; Panicoideae; Andropogoneae; Zea.
REFERENCE  1 (bases 1 to 587)
AUTHORS   Walbot, V.
TITLE     Maize ESTs from various cDNA libraries sequenced at Stanford
JOURNAL   Unpublished (1999)
COMMENT   Contact: Walbot V
            Department of Biological Sciences
            Stanford University
            855 California Ave, Palo Alto, CA 94304, USA
            Tel: 650 723 2227
            Fax: 650 725 8221
            Email: walbot@stanford.edu
            Plate: 114012 row: C column: 10.
            Location/Qualifiers
1..587
/organism="Zea mays"

```

```

wdk2c.pk0004.g12 5' end, mRNA sequence.
CA707068
CA707068.1  GI:25428861
EST.
Triticum aestivum (bread wheat)
Triticum aestivum
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae;
Poideae; Triticeae; Triticum.
1 (bases 1 to 461)
Tingey, S.V., Powell, W., Wolters, P., Doan, M., Hainey, C., Yuan, Z.,
Miao, G., Caraher, N. and Hanafey, M.K.
DuPont Wheat cDNA Sequence
Unpublished (2002)
Contact: Scott V. Tingey
Crop Genetics
E. I. DuPont de Nemours and Company
1 Innovation Way, P.O. Box 6104, Newark, DE 19714-6104, USA
Tel: 302-631-2602
Fax: 302-631-2607
Email: Scott.V.Tingey@USA.dupont.com
Seq primer: M13.
Location/Qualifiers
1..461
/organism="Triticum aestivum"
/mol_type="mRNA"
/db_xref="taxon:4565"
/clone="wdk2c.pk0004.g12"
/tissue_type="kernel"
/clone_lib="wdk2c"
/notes="Vector: pBluescript SK+; Site 1: EcoRI; Site 2:
XhoI; Wheat (Triticum aestivum L.) developing kernel, 7
days after anthesis."

ORIGIN
Query Match      80.0%; Score 16.8; DB 6; Length 461;
Best Local Similarity 90.0%; Pred. No. 2.2e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Oy  2  CGTCGAACGTTTCGAGATGAT 21
      ||||| ||||| ||||| |||||
Db  293  CGCGCAACGTTGGAGATGAT 274

RESULT 9
CA827269
LOCUS      587 bp      mRNA      linear      EST 11-DEC-2002
DEFINITION 114012C10.y1 1114 - UniGene IV from Maize Genome Project Zea mays
cDNA, mRNA sequence.
ACCESSION  CA827269
VERSION    CA827269.1  GI:26455686
KEYWORDS   EST.
SOURCE     Zea mays
ORGANISM   Zea mays
            Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
            Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; PACCAD
            clade; Panicoideae; Andropogoneae; Zea.
REFERENCE  1 (bases 1 to 587)
AUTHORS   Walbot, V.
TITLE     Maize ESTs from various cDNA libraries sequenced at Stanford
JOURNAL   Unpublished (1999)
COMMENT   Contact: Walbot V
            Department of Biological Sciences
            Stanford University
            855 California Ave, Palo Alto, CA 94304, USA
            Tel: 650 723 2227
            Fax: 650 725 8221
            Email: walbot@stanford.edu
            Plate: 114012 row: C column: 10.
            Location/Qualifiers
1..587
/organism="Zea mays"

FEATURES
source
1..461

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```

/mol_type="mRNA"
/db_xref="dbEST:3524_1_56_1_G06.Y_1"
/clone_lib="taxon:4577"
/clone_lib="1114 - Unigene IV from Maize Genome Project"
/note="This library represents the unique genes found in
the fourth round of EST sequencing at Stanford University
for the maize genome project. Sequences are present from
libraries 1091 and 3524. Contigs were assembled using
ZmDBAssembler and 2 representatives from each contig were
selected for the Unigene set. All singlets were also
selected."

ORIGIN
Query Match      80.0%; Score 16.8; DB 6; Length 587;
Best Local Similarity 90.0%; Pred. No. 2.3e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 TCGTCGAACGTTCCGAGATGA 20
    ||||| ||||| ||||| |||||
Db 30 TCGTCCACGCTTCGAGATGA 49

RESULT 10
BH387860/c
LOCUS      BH387860      595 bp      DNA      linear      GSS 11-DEC-2001
DEFINITION AG-ND-129F22.TF ND-TAM Anopheles gambiae genomic clone
VERSION     BH387860
KEYWORDS    BH387860.1 GI:17334001
SOURCE      GSS.
ORGANISM    Anopheles gambiae (African malaria mosquito)
            Anopheles gambiae
            Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
            Neoptera; Endopterygota; Diptera; Nematocera; Culicoides;
            Anopheles
REFERENCE   1 (bases 1 to 595)
AUTHORS    Hong,Y.S., Hogan,J.R., Wang,X., Sarkar,A., Sim,C., Loftus,B.J.,
            Ren,C., Huff,E.R., Carlile,J.L., Black,K., Zhang,H.-B.,
            Gardner,M.J. and Collins,F.H.
TITLE       Construction of a BAC library and generation of BAC end
            sequence-tagged connectors for genome sequencing of the African
            malaria mosquito Anopheles gambiae
JOURNAL     Mol. Genet. Genomics 268 (6), 720-728 (2003)
MEDLINE     22542063
PUBMED      12653398
COMMENT     Other GSSs: AG-ND-129F22.TR
            Contact: Brendan J Loftus
            Department of Eukaryotic Genomics
            The Institute for Genomic Research
            9712 Medical Center Dr., Rockville, MD 20850, USA
            Tel: 301 838 0208
            Fax: 301 838 3543
            Email: bjloftus@tigr.org
            This clone is from an A. gambiae BAC library (ND-TAM) provided by
            F.H. Collins and sequenced by The Institute for Genomic Research
            (TIGR). The BAC library was generated from A. gambiae PEST strain
            DNA. All DNA was extracted from newly hatched first instar larvae
            to minimize the inclusion of DNA from microorganisms that inhabit
            the gut. The DNA is derived from mixed sexes of larvae. The BAC
            library was constructed at Texas A&M University BAC Center
            University, College Station, Texas 77843-2123, USA using a HindIII
            partial digest.
            Seq primer: M13 For
            Class: BAC ends.
            Location/Qualifiers
            1..595
            /organism="Anopheles gambiae"
            /mol_type="genomic DNA"
            /strain="PEST"
            /db_xref="taxon:7165"
            /clone="AG-ND-129F22"
            /clone_lib="ND-TAM"
            /note="Vector: pSCBAC1; Site_1: HindIII"

FEATURES             source
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    1..1410
    /organism="Gossypium arboreum"
    /mol_type="mRNA"
    /strain="AKA"
    /cultivar="8400"
    /db_xref="taxon:29729"
    /clone="GA_Ea0035L13f"
    /tissue_type="Fibers isolated from bolls harvested 7-10
    dpa"
    /lab_host="E. coli"
    /clone_lib="Gossypium arboreum 7-10 dpa fiber library"
    /note="Vector: pBK-CMV; Site_1: EcoRI; Site_2: XhoI"

ORIGIN
Query Match      80.0%; Score 16.8; DB 2; Length 1410;
Best Local Similarity 90.0%; Pred. No. 2.5e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 TCGTCGAACGTTCCGAGATGA 20
    ||||| ||||| ||||| |||||
Db 1356 TCGTCGAACGAGCGAGATGA 1375

RESULT 12
AW710594/c
LOCUS      AW710594      303 bp      mRNA      linear      EST 25-APR-2000
DEFINITION e4h01ne.r1 Neurospora crassa evening cDNA library Neurospora crassa
            cDNA clone e4h01ne 3', mRNA sequence.
ACCESSION   AW710594
VERSION     AW710594.1 GI:7599686
KEYWORDS    EST.
SOURCE      Neurospora crassa

```

ORIGIN

Best Local Similarity 94.4%; Pred. NO. 3.7e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 4 TCGAACGTTTCGAGATGAT 21
|||||
Db 269 TCGAACGTTTCGAGTTGAT 286
|||||

RESULT 15
BW300285/c
LOCUS BW300285 445 bp mRNA linear EST 11-NOV-2002
DEFINITION BW300285 Nori Satoh unpublished cDNA library, neural complex Ciona
intestinalis cDNA clone cinc008n07 5', mRNA sequence.

ACCESSION BW300285
VERSION
KEYWORDS

SOURCE BW300285.1 GI:24880896
ORGANISM Ciona intestinalis
Ciona intestinalis
Eukaryota; Metazoa; Chordata; Urochordata; Ascidiacea; Enterogona;
Phlebobranchia; Clonidae; Ciona.

REFERENCE 1 (bases 1 to 445)
AUTHORS Satou, Y., Shin-i, T., Kohara, Y. and Satoh, N.
TITLE Expressed genes in Ciona intestinalis (2002c)
JOURNAL Unpublished (2002)
COMMENT

Contact: Nori Satoh
Department of Zoology
Kyoto University
Sakyo-ku, Kyoto, Kyoto 606-8502, Japan
Tel: 81-75-753-4081
Fax: 81-75-705-1113
Email: satoh@ascidian.zool.kyoto-u.ac.jp.

FEATURES
source
1..445
Location/Qualifiers
1..445
/organism="Ciona intestinalis"
/mol_type="mRNA"
/db_xref="taxon:7719"
/clone="cinc008n07"
/tissue_type="neural complex"
/clone_lib="Nori Satoh unpublished cDNA library, neural
complex"

ORIGIN

Query Match 78.1%; Score 16.4; DB 5; Length 445;
Best Local Similarity 94.4%; Pred. NO. 3.7e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCGTCGACGTTTCGAGAT 18
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Db 80 TCGTCGACATTCGAGAT 63
|||||

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Job time : 3125 secs

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Result No.	Score	Query Match	Length	DB	ID	Description	
1	21	100.0	21	14	US-10-033-243-132		Sequence 132, Appl
2	19	90.5	19	10	US-09-927-422A-16		Sequence 16, Appl
3	19	90.5	19	14	US-10-033-243-19		Sequence 19, Appl
4	19	90.5	19	16	US-10-176-883-41		Sequence 41, Appl
5	19	90.5	19	16	US-10-177-826-41		Sequence 41, Appl
6	19	90.5	19	17	US-10-328-578-41		Sequence 41, Appl
7	19	90.5	19	18	US-10-623-371-41		Sequence 41, Appl
8	19	90.5	19	18	US-10-739-518-41		Sequence 41, Appl
9	19	90.5	22	14	US-10-033-243-30		Sequence 30, Appl
10	19	90.5	22	16	US-10-176-883-52		Sequence 52, Appl
11	19	90.5	22	16	US-10-177-826-52		Sequence 52, Appl

US-09-927-422A-16
; Sequence 16, Application US/09927422A
; Publication No. US20030022852A1
; GENERAL INFORMATION:
; APPLICANT: Van Nest, Gary
; APPLICANT: Tuck, Stephen
; APPLICANT: Fearon, Karen L.
; APPLICANT: Dina, Dino
; TITLE OF INVENTION: BIODEGRADABLE IMMUNOMODULATORY
; TITLE OF INVENTION: FORMULATIONS AND METHODS FOR USE THEREOF
; FILE REFERENCE: 377882001420
; CURRENT APPLICATION NUMBER: US/09/927,422A
; CURRENT FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: U.S. 09/802,359
; PRIOR FILING DATE: 2001-03-09
; PRIOR APPLICATION NUMBER: U.S. 60/188,30
; PRIOR FILING DATE: 2000-03-10
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 16
; LENGTH: 19
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Polynucleotide containing CG
US-09-927-422A-16

Query Match 90.5%; Score 19; DB 10; Length 19;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCGTCGAACGTTTCGAGATG 19
| | | | | | | | | | | | | | | | | | | | |
Db 1 TCGTCGAACGTTTCGAGATG 19

RESULT 3
US-10-033-243-19
; Sequence 19, Application US/10033243
; Publication No. US20030049266A1
; GENERAL INFORMATION:
; APPLICANT: FEARON, Karen L.
; APPLICANT: DINA, Dino
; TITLE OF INVENTION: IMMUNOMODULATORY POLYNUCLEOTIDES AND
; TITLE OF INVENTION: METHODS OF USING THE SAME
; FILE REFERENCE: 377882001800
; CURRENT APPLICATION NUMBER: US/10/033,243
; CURRENT FILING DATE: 2002-04-03
; PRIOR APPLICATION NUMBER: 60/258,675
; PRIOR FILING DATE: 2000-12-27
; NUMBER OF SEQ ID NOS: 133
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 19
; LENGTH: 19
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Polynucleotide containing CG
US-10-033-243-19

Query Match 90.5%; Score 19; DB 14; Length 19;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCGTCGAACGTTTCGAGATG 19
| | | | | | | | | | | | | | | | | | | | |
Db 1 TCGTCGAACGTTTCGAGATG 19

RESULT 4
US-10-176-883-41
; Sequence 41, Application US/10176883
; Publication No. US20030175731A1

; GENERAL INFORMATION:
; APPLICANT: Fearon, Karen
; APPLICANT: Dina, Dino
; APPLICANT: Tuck, Stephen
; TITLE OF INVENTION: CHIMERIC IMMUNOMODULATORY COMPOUNDS AND
; TITLE OF INVENTION: METHODS OF USING THE SAME-I
; FILE REFERENCE: 377882002000
; CURRENT APPLICATION NUMBER: US/10/176,883
; CURRENT FILING DATE: 2002-06-21
; PRIOR APPLICATION NUMBER: 60/299,883
; PRIOR FILING DATE: 2001-06-21
; PRIOR APPLICATION NUMBER: 60/375,253
; PRIOR FILING DATE: 2002-04-23
; NUMBER OF SEQ ID NOS: 141
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 41
; LENGTH: 19
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic construct
US-10-176-883-41

Query Match 90.5%; Score 19; DB 16; Length 19;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCGTCGAACGTTTCGAGATG 19
| | | | | | | | | | | | | | | | | | | | |
Db 1 TCGTCGAACGTTTCGAGATG 19

RESULT 5
US-10-177-826-41
; Sequence 41, Application US/10177826
; Publication No. US20030199466A1
; GENERAL INFORMATION:
; APPLICANT: Fearon, Karen
; APPLICANT: Dina, Dino
; APPLICANT: Tuck, Stephen
; TITLE OF INVENTION: CHIMERIC IMMUNOMODULATORY COMPOUNDS AND
; TITLE OF INVENTION: METHODS OF USING THE SAME-II
; FILE REFERENCE: 377882002001
; CURRENT APPLICATION NUMBER: US/10/177,826
; CURRENT FILING DATE: 2002-06-21
; PRIOR APPLICATION NUMBER: 60/299,883
; PRIOR FILING DATE: 2001-06-21
; PRIOR APPLICATION NUMBER: 60/375,253
; PRIOR FILING DATE: 2002-04-23
; NUMBER OF SEQ ID NOS: 141
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 41
; LENGTH: 19
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic construct
US-10-177-826-41

Query Match 90.5%; Score 19; DB 16; Length 19;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCGTCGAACGTTTCGAGATG 19
| | | | | | | | | | | | | | | | | | | | |
Db 1 TCGTCGAACGTTTCGAGATG 19

RESULT 6
US-10-328-578-41
; Sequence 41, Application US/10328578
; Publication No. US20030225016A1
; GENERAL INFORMATION:

APPLICANT: Fearon, Karen L.
APPLICANT: Dina, Dino
APPLICANT: Tuck, Stephen F.
TITLE OF INVENTION: CHIMERIC IMMUNOMODULATORY COMPOUNDS AND
TITLE OF INVENTION: METHODS OF USING THE SAME-III
FILE REFERENCE: 377882002020
CURRENT FILING DATE: 2003-05-16
PRIOR FILING DATE: 2002-06-21
PRIOR APPLICATION NUMBER: US 60/299,883
PRIOR FILING DATE: 2001-06-21
PRIOR APPLICATION NUMBER: US 60/375,253
PRIOR FILING DATE: 2002-04-23
PRIOR APPLICATION NUMBER: US 10/177,826
PRIOR FILING DATE: 2002-06-21
NUMBER OF SEQ ID NOS: 152
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 41
LENGTH: 19
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic construct
US-10-328-578-41

Query Match 90.5%; Score 19; DB 17; Length 19;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCGTCGAACGTTTCGAGATG 19
|||||
Db 1 TCGTCGAACGTTTCGAGATG 19

RESULT 7
US-10-623-371-41
Sequence 41, Application US/10623371
Publication No. US20040132677A1
GENERAL INFORMATION:
APPLICANT: FEARON, Karen L.
APPLICANT: DINA, Dino
APPLICANT: TUCK, Stephen F.
TITLE OF INVENTION: CHIMERIC IMMUNOMODULATORY COMPOUNDS AND
TITLE OF INVENTION: METHODS OF USING THE SAME-IV
FILE REFERENCE: 377882002021
CURRENT APPLICATION NUMBER: US/10/623,371
CURRENT FILING DATE: 2003-07-18
PRIOR FILING DATE: 2002-12-23
PRIOR APPLICATION NUMBER: US 10/176,883
PRIOR FILING DATE: 2002-06-21
PRIOR APPLICATION NUMBER: US 10/177,826
PRIOR FILING DATE: 2002-06-21
PRIOR APPLICATION NUMBER: US 60/299,883
PRIOR FILING DATE: 2001-06-21
PRIOR APPLICATION NUMBER: US 60/375,253
PRIOR FILING DATE: 2002-04-23
NUMBER OF SEQ ID NOS: 158
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 41
LENGTH: 19
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic construct
US-10-623-371-41

Query Match 90.5%; Score 19; DB 18; Length 19;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCGTCGAACGTTTCGAGATG 19

Db 1 TCGTCGAACGTTTCGAGATG 19
|||||
RESULT 8
US-10-739-518-41
Sequence 41, Application US/10739518
Publication No. US20040136948A1
GENERAL INFORMATION:
APPLICANT: Fearon, Karen L.
TITLE OF INVENTION: BRANCHED IMMUNOMODULATORY COMPOUNDS AND
TITLE OF INVENTION: METHODS OF USING THE SAME
FILE REFERENCE: 377882003200
CURRENT APPLICATION NUMBER: US/10/739,518
CURRENT FILING DATE: 2003-12-17
PRIOR FILING DATE: 2002-12-23
PRIOR APPLICATION NUMBER: US 60/436,406
NUMBER OF SEQ ID NOS: 148
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 41
LENGTH: 19
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic Construct
US-10-739-518-41

Query Match 90.5%; Score 19; DB 18; Length 19;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCGTCGAACGTTTCGAGATG 19
|||||
Db 1 TCGTCGAACGTTTCGAGATG 19

RESULT 9
US-10-033-243-30
Sequence 30, Application US/10033243
Publication No. US20030049266A1
GENERAL INFORMATION:
APPLICANT: FEARON, Karen L.
APPLICANT: DINA, Dino
TITLE OF INVENTION: IMMUNOMODULATORY POLYNUCLEOTIDES AND
TITLE OF INVENTION: METHODS OF USING THE SAME
FILE REFERENCE: 377882001800
CURRENT APPLICATION NUMBER: US/10/033,243
CURRENT FILING DATE: 2002-04-03
PRIOR FILING DATE: 2000-12-27
PRIOR APPLICATION NUMBER: 60/258,675
NUMBER OF SEQ ID NOS: 133
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 30
LENGTH: 22
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Polynucleotide containing CG
US-10-033-243-30

Query Match 90.5%; Score 19; DB 14; Length 22;
Best Local Similarity 100.0%; Pred. No. 5.7;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCGTCGAACGTTTCGAGATG 19
|||||
Db 4 TCGTCGAACGTTTCGAGATG 22

RESULT 10
US-10-176-883-52
Sequence 52, Application US/10176883
Publication No. US20030175731A1

; GENERAL INFORMATION:
; APPLICANT: Fearon, Karen
; APPLICANT: Dina, Dino
; APPLICANT: Tuck, Stephen
; TITLE OF INVENTION: CHIMERIC IMMUNOMODULATORY COMPOUNDS AND
; FILE REFERENCE: 377882002000
; CURRENT APPLICATION NUMBER: US/10/176,883
; PRIOR FILING DATE: 2002-06-21
; PRIOR APPLICATION NUMBER: 60/299,883
; PRIOR FILING DATE: 2001-06-21
; PRIOR APPLICATION NUMBER: 60/375,253
; PRIOR FILING DATE: 2002-04-23
; NUMBER OF SEQ ID NOS: 141
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 52
; LENGTH: 22
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic construct
US-10-176-883-52

Query Match 90.5%; Score 19; DB 16; Length 22;
Best Local Similarity 100.0%; Pred. No. 5.7;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCGTCGAACGTTTCGAGATG 19
| | | | | | | | | | | | | | | | | | | |
Db 4 TCGTCGAACGTTTCGAGATG 22

RESULT 11
US-10-177-826-52
; Sequence 52, Application US/10177826
; Publication No. US20030199466A1
; GENERAL INFORMATION:
; APPLICANT: Fearon, Karen
; APPLICANT: Dina, Dino
; APPLICANT: Tuck, Stephen
; TITLE OF INVENTION: CHIMERIC IMMUNOMODULATORY COMPOUNDS AND
; FILE REFERENCE: 377882002001
; CURRENT APPLICATION NUMBER: US/10/177,826
; CURRENT FILING DATE: 2002-06-21
; PRIOR APPLICATION NUMBER: 60/299,883
; PRIOR FILING DATE: 2001-06-21
; PRIOR APPLICATION NUMBER: 60/375,253
; PRIOR FILING DATE: 2002-04-23
; NUMBER OF SEQ ID NOS: 141
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 52
; LENGTH: 22
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic construct
US-10-177-826-52

Query Match 90.5%; Score 19; DB 16; Length 22;
Best Local Similarity 100.0%; Pred. No. 5.7;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCGTCGAACGTTTCGAGATG 19
| | | | | | | | | | | | | | | | | | | |
Db 4 TCGTCGAACGTTTCGAGATG 22

RESULT 12
US-10-328-578-52
; Sequence 52, Application US/10328578
; Publication No. US20030225016A1
; GENERAL INFORMATION:

; APPLICANT: Fearon, Karen L.
; APPLICANT: Dina, Dino
; APPLICANT: Tuck, Stephen F.
; TITLE OF INVENTION: CHIMERIC IMMUNOMODULATORY COMPOUNDS AND
; FILE REFERENCE: 377882002020
; CURRENT APPLICATION NUMBER: US/10/328,578
; CURRENT FILING DATE: 2003-05-16
; PRIOR APPLICATION NUMBER: US 10/176,883
; PRIOR FILING DATE: 2002-06-21
; PRIOR APPLICATION NUMBER: US 60/299,883
; PRIOR FILING DATE: 2001-06-21
; PRIOR APPLICATION NUMBER: US 60/375,253
; PRIOR FILING DATE: 2002-04-23
; PRIOR APPLICATION NUMBER: US 10/177,826
; PRIOR FILING DATE: 2002-06-21
; NUMBER OF SEQ ID NOS: 152
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 52
; LENGTH: 22
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic construct
US-10-328-578-52

Query Match 90.5%; Score 19; DB 17; Length 22;
Best Local Similarity 100.0%; Pred. No. 5.7;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCGTCGAACGTTTCGAGATG 19
| | | | | | | | | | | | | | | | | | | |
Db 4 TCGTCGAACGTTTCGAGATG 22

RESULT 13
US-10-623-371-52
; Sequence 52, Application US/10623371
; Publication No. US20040132677A1
; GENERAL INFORMATION:
; APPLICANT: Fearon, Karen L.
; APPLICANT: Dina, Dino
; APPLICANT: Tuck, Stephen F.
; TITLE OF INVENTION: CHIMERIC IMMUNOMODULATORY COMPOUNDS AND
; FILE REFERENCE: 377882002021
; CURRENT APPLICATION NUMBER: US/10/623,371
; CURRENT FILING DATE: 2003-07-18
; PRIOR APPLICATION NUMBER: US 10/328,578
; PRIOR FILING DATE: 2002-12-23
; PRIOR APPLICATION NUMBER: US 10/176,883
; PRIOR FILING DATE: 2002-06-21
; PRIOR APPLICATION NUMBER: US 10/177,826
; PRIOR FILING DATE: 2002-06-21
; PRIOR APPLICATION NUMBER: US 60/299,883
; PRIOR FILING DATE: 2001-06-21
; PRIOR APPLICATION NUMBER: US 60/375,253
; PRIOR FILING DATE: 2002-04-23
; NUMBER OF SEQ ID NOS: 158
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 52
; LENGTH: 22
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic construct
US-10-623-371-52

Query Match 90.5%; Score 19; DB 18; Length 22;
Best Local Similarity 100.0%; Pred. No. 5.7;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCGTCGAACGTTTCGAGATG 19

Job time : 502 secs

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Db      4 TCGTCGAACGTTCCGAGATG 22
|||||
RESULT 14
US-10-739-518-52
; Sequence 52, Application US/10739518
; Publication No. US20040136948A1
; GENERAL INFORMATION:
; APPLICANT: Fearon, Karen L.
; TITLE OF INVENTION: BRANCHED IMMUNOMODULATORY COMPOUNDS AND
; TITLE OF INVENTION: METHODS OF USING THE SAME
; FILE REFERENCE: 377882003200
; CURRENT APPLICATION NUMBER: US/10/739,518
; CURRENT FILING DATE: 2003-12-17
; PRIOR APPLICATION NUMBER: US 60/436,406
; PRIOR FILING DATE: 2002-12-23
; NUMBER OF SEQ ID NOS: 148
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 52
; LENGTH: 22
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
US-10-739-518-52
Query Match      90.5%; Score 19; DB 18; Length 22;
Best Local Similarity 100.0%; Pred. No. 5.7;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 TCGTCGAACGTTCCGAGATG 19
|||||
Db      4 TCGTCGAACGTTCCGAGATG 22
|||||
RESULT 15
US-10-739-518-46
; Sequence 46, Application US/10739518
; Publication No. US20040136948A1
; GENERAL INFORMATION:
; APPLICANT: Fearon, Karen L.
; TITLE OF INVENTION: BRANCHED IMMUNOMODULATORY COMPOUNDS AND
; TITLE OF INVENTION: METHODS OF USING THE SAME
; FILE REFERENCE: 377882003200
; CURRENT APPLICATION NUMBER: US/10/739,518
; CURRENT FILING DATE: 2003-12-17
; PRIOR APPLICATION NUMBER: US 60/436,406
; PRIOR FILING DATE: 2002-12-23
; NUMBER OF SEQ ID NOS: 148
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 46
; LENGTH: 19
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
; NAME/KEY: misc_feature
; LOCATION: 5
; OTHER INFORMATION: b is 5-bromocytosine
US-10-739-518-46
Query Match      86.7%; Score 18.2; DB 18; Length 19;
Best Local Similarity 94.7%; Pred. No. 15;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy      1 TCGTCGAACGTTCCGAGATG 19
|||||
Db      1 TCGTCGAACGTTCCGAGATG 19
|||||
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